Shri Shankaracharya Professional University
Bhilai (C.G.), India
Established under Chhattisgarh Private Universities (Establishment and Operation) Act, 2005

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Sno	Problem Statement ID	Problem Statement Title	Description	Category	Theme	Deadline for Idea Submission
1	HOMPS-25001	Making Career Choices and AI based counselling accessible to every child at secondary level along with aptitude tests and detailed career paths	In many regions, students at the secondary level lack proper guidance in choosing suitable career paths. Limited access to professional counselling, inadequate awareness of career options, and the absence of personalized support often lead to misinformed decisions, underemployment, or loss of potential. This problem aims to bridge that gap by leveraging AI-driven counselling systems, integrated with aptitude assessments and detailed, data-backed career pathways, to ensure every child, regardless of their background or location, receives timely and tailored career guidance. The goal is to democratize career support, align students' strengths with the right opportunities, and empower them to make informed future choices.	software	Education Reimagined	23-10-2025
2	HOMPS-25002	Authenticity Validator for Academia such as fake degrees and certificates	Academic fraud, including the use of fake degrees and forged certificates, is a growing concern that undermines the credibility of educational institutions and the trustworthiness of qualifications. Employers, universities, and government bodies often struggle to verify the authenticity of academic documents efficiently and reliably. This problem seeks to develop a secure, technology-driven solution (e.g., using AI, blockchain, or digital credentialing) to validate academic records in real-time. The system would enable institutions to issue tamper-proof digital certificates, and allow third parties to instantly verify credentials through a trusted platform, thereby ensuring transparency, authenticity, and integrity in the academic ecosystem.	software	Education Reimagined	23-10-2025
3	HOMPS-25003	Centralised Digital Platform for Comprehensive student activity record.	Currently, student activities such as academic achievements, co-curricular involvement, sports participation, volunteering, internships, and skill development are often recorded in fragmented or manual ways—if at all. This lack of a unified system makes it difficult for educators, institutions, and students themselves to track, assess, and showcase holistic development over time. This problem aims to develop a centralised digital platform where all student activities can be recorded, verified, and accessed in one place. The platform would allow students to build a comprehensive digital portfolio, enable institutions to monitor progress and engagement, and provide valuable insights for applications to higher education, scholarships, or jobs.	software	Education Reimagined	23-10-2025

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4	HOMPS-25004	Internship/Industrial Training with Placement Opportunity	Background: Every student of technical education must complete an internship or industrial-training module before graduation and most also aspire to convert that opportunity into a full-time placement. Yet, within various colleges of technical education, the path from ""looking for an internship"" to ""signing a placement offer"" remains troublesome. Notices appear on scattered WhatsApp groups, resumes travel by email, and approval signatures require multiple office visits. Students miss deadlines, mentors lose track of who applied where, and the placement cell spends evenings stitching together spreadsheets simply to learn how many seats are still unfilled. While local industries also benefit from smoother workflows, the primary pain is felt inside the campus: learners waste effort on administrative chase cycles and the placement office drowns in manual status updates instead of focusing on employability coaching. Description: A campus-centric software platform could replace this maze of PDFs, emails, and manual ledgers with a single source of truth. Students would maintain one	software	Education Reimagined	23-10-2025
5	HOMPS-25005	Digital Platform for Centralized Alumni Data Management and Engagement	Problem Description Most educational institutions do not have a reliable or centralized system to manage their alumni data. Once students graduate, their contact information, academic records, and career updates are often scattered across multiple platforms or lost entirely. In many cases, alumni communication is restricted to informal WhatsApp groups or outdated mailing lists, making long-term engagement difficult. This lack of a structured system limits the potential of alumni relationships. Institutions miss opportunities to involve alumni in events, mentoring, internships, or fundraising. In a digitally connected world, the absence of a proper alumni management system creates a significant gap in outreach and growth. Impact / Why this problem needs to be solved • Strengthens alumni engagement and builds long-term institutional relationships. • Provides opportunities for mentorship, internships, and collaborations. • Enhances fundraising potential through better alumni outreach. • Increases institutional credibility and community building. Expected Outcomes • A centralized alumni	software	Education Reimagined	23-10-2025
6	HOMPS-25006	Student Innovation: Swadeshi for Atmanirbhar Bharat - Smart Education	Smart Education, a Concept that Describes learning in digital age.it enables learner to learn more effectively, efficently, flexibly and comfortably.	software	Education Reimagined	23-10-2025

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7	HOMPS-25007	Smart Growth Tracker for Early Development Monitoring	Early childhood is a critical period for physical, cognitive, emotional, and social development. However, in many cases, early signs of developmental delays or health issues go unnoticed due to lack of regular monitoring, limited access to pediatric specialists, or unstructured data from various sources. This problem aims to address the need for a Smart Growth Tracker—a digital platform or IoT-enabled system that helps parents, caregivers, and healthcare providers track and monitor early developmental milestones in children. By integrating data on physical growth (height, weight, BMI), motor skills, language development, social behavior, and more, the platform can provide real-time insights, alerts, and personalized recommendations based on standard pediatric benchmarks. The goal is to enable early intervention, ensure holistic development, and support parents and healthcare professionals with data-driven decision-making for a healthier start to life.	software	Holistic Wellness	23-10-2025
8	HOMPS-25008	Develop a tool (browser extension or mobile app) that flags and explains false or misleading health claims (e.g., about vaccines, diets, or medications) using verified medical sources.	In the digital age, misinformation about health—particularly related to vaccines, diets, supplements, and medications—spreads rapidly through social media, websites, and online forums. This misinformation can lead to harmful health decisions, distrust in medical science, and public health risks, as seen during global health crises like the COVID-19 pandemic. This problem aims to develop a browser extension or mobile app that can automatically detect, flag, and explain false or misleading health claims found in online content.	software	Holistic Wellness	23-10-2025
9	HOMPS-25009	Create an IoT-based smart pill dispenser that tracks medication adherence, sends reminders, and alerts caregivers if doses are missed.	Medication non-adherence—forgetting or intentionally skipping prescribed doses—is a major issue, especially among the elderly and chronically ill. It can lead to serious health complications, hospitalizations, and increased healthcare costs. Traditional pillboxes and reminder apps often fall short in ensuring consistent and monitored medication intake. This project aims to develop an IoT-based smart pill dispenser that not only dispenses the correct dose at the right time but also: Tracks medication adherence in real-time Sends reminders to patients via mobile app, text, or voice Alerts caregivers or family members if a dose is missed Maintains digital logs of medication history for healthcare providers Supports multiple medications with customized schedules	hardware	Holistic Wellness	23-10-2025

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10	HOMPS-25010	Build a platform that collects anonymous symptom data (like flu, fever, cough) and uses AI to predict potential outbreaks before they spread.	This problem aims to build a digital platform that collects anonymous, real-time symptom data from users (e.g., fever, cough, sore throat) through mobile apps, web forms, or connected devices. Using AI and predictive analytics, the system would: 1.Identify patterns in symptom clusters across regions 2.Predict potential outbreaks before they escalate 3.Generate heatmaps and alerts for health authorities and the public 4.Protect user privacy through anonymization and secure data handling The goal is to create a crowdsourced, privacy-preserving early warning system that empowers individuals and health agencies to respond faster to potential health risks, ultimately helping to contain outbreaks before they spread widely.	software	Holistic Wellness	23-10-2025
11	HOMPS-25011	Allow visually impaired users to log symptoms and medications via voice, with AI assistance	Visually impaired individuals often face significant barriers when managing their health—especially when it comes to logging symptoms, tracking medications, and accessing health information. Most existing health tracking apps are not fully accessible and rely heavily on visual interfaces, limiting their usability for this population. This problem aims to develop an AI-powered, voice-enabled mobile application that allows visually impaired users to easily log symptoms and medications using natural speech.The goal is to create an inclusive, accessible tool that supports independent health management for visually impaired users, improves medication adherence, and ensures timely health tracking through intuitive voice interaction and smart AI support.	software	Holistic Wellness	23-10-2025
12	HOMPS-25012	Development of a Digital Farm Management Portal for Implementing Biosecurity Measures in Pig and Poultry Farms	This project aims to develop a comprehensive digital farm management portal designed to help pig and poultry farmers effectively implement and monitor biosecurity measures. The portal will provide tools for tracking farm activities, managing livestock health records, scheduling disinfection routines, controlling farm access, and reporting disease symptoms or outbreaks in real-time. By integrating data analytics, mobile accessibility, and alert systems, the platform will support proactive decision-making, reduce the risk of disease transmission, and promote compliance with biosecurity standards, ultimately enhancing farm productivity and animal welfare.	software	Sustainable Agriculture	23-10-2025

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13	HOMPS-25013	Smart Crop Advisory System for Small and Marginal Farmers	This project focuses on developing a Smart Crop Advisory System tailored to the needs of small and marginal farmers. Leveraging real-time data from weather forecasts, soil sensors, and satellite imagery, combined with AI-driven analytics, the system will provide personalized, actionable advice on crop selection, planting schedules, pest and disease management, and optimal irrigation practices. Designed to be accessible via mobile phones in local languages, this tool aims to empower resource-constrained farmers with timely, cost-effective guidance to improve crop yield, reduce losses, and enhance overall farm sustainability.	software	Sustainable Agriculture	23-10-2025
14	HOMPS-25014	Low-Cost Smart Transportation Solution for Agri Produce from Remote Farms to Nearest Motorable Road in NER Region	This project aims to develop an affordable and efficient transportation system tailored for the unique challenges of the Northeast Region (NER), where many farms are located in remote, difficult-to-access areas. The solution will integrate smart tracking, route optimization, and community-based transport coordination to facilitate timely and safe movement of agricultural produce from remote farms to the nearest motorable roads. By leveraging low-cost technology and local resources, the system seeks to reduce post-harvest losses, improve market access, and enhance the livelihoods of small-scale farmers in this geographically challenging region.	software	Sustainable Agriculture	23-10-2025
15	HOMPS-25015	Intelligent Pesticide Sprinkling System Determined by the Infection Level of a Plant	This project proposes the development of an intelligent pesticide sprinkling system that dynamically adjusts pesticide application according to the real-time infection level of plants. Using sensor networks and image analysis powered by AI, the system will detect disease symptoms or pest infestations early and precisely, ensuring pesticides are sprayed only where needed and in optimal quantities. This targeted approach aims to minimize chemical use, reduce environmental impact, and lower costs for farmers while maintaining crop health and yield.	hardware	Sustainable Agriculture	23-10-2025

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16	HOMPS-25016	Blockchain-Based Supply Chain Transparency for Agricultural Produce	This project aims to implement a blockchain-enabled platform that enhances transparency and traceability in the agricultural supply chain. By recording every transaction—from farm production, harvesting, processing, to distribution—on an immutable ledger, stakeholders such as farmers, distributors, retailers, and consumers can verify the origin, quality, and journey of agricultural produce. This increased transparency helps reduce fraud, ensure fair pricing, improve food safety, and build consumer trust, ultimately fostering a more efficient and accountable agri-supply ecosystem.	software	Sustainable Agriculture	23-10-2025
17	HOMPS-25017	Student Innovation: Swadeshi for Atmanirbhar Bharat - Heritage & Culture	Ideas that showcase the rich cultural heritage and traditions of India	software	Cultural Heritage	23-10-2025
18	HOMPS-25018	Temple & Pilgrimage Crowd Management (Somnath, Dwarka, Ambaji, Pavagadh,Dongargarh,maihar,Tirupati,Etc)	Background India's rich spiritual heritage attracts millions of devotees and tourists every year. Gujarat is home to some of the most important pilgrimage destinations such as Somnath, Dwarka, Ambaji, and Pavagadh, which witness massive footfalls, especially during festivals, auspicious days, and long weekends. While these pilgrim centers strengthen cultural tourism, they also face significant challenges in managing crowd surges, ensuring safety, providing timely information, and enhancing the overall devotee experience. Incidents of overcrowding, long queues, health emergencies, and inefficient resource allocation highlight the urgent need for technology-driven crowd management solutions that can ensure safety, convenience, and a smooth spiritual experience for pilgrims. Detailed Description Currently, crowd management in pilgrimage sites is handled through manual monitoring, local police deployment, barricades, and traditional queue systems. These approaches often fall short during peak seasons when lakhs of devotees gather simultaneously. Key issues include: ▪ Overcrowding & Queue	software	Cultural Heritage	23-10-2025

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19	HOMPS-25019	AI/ML-Powered Mobile App for Translation Between Chhattisgarhi and Other Indian Languages	India is home to hundreds of languages and dialects, many of which remain underrepresented in mainstream translation technologies. Among them, Chhattisgarhi, spoken by over 18 million people, lacks comprehensive digital support for real-time, AI-powered translation and communication. Most existing tools (like Google Translate) offer only limited or no support for such regional languages. The Problem: Underrepresentation of Chhattisgarhi and other local languages in translation apps: Major platforms have limited support for Indian dialects, making communication and access to content difficult for non-English/Hindi speakers. Language barrier in education, healthcare, government, and legal sectors: Many people in rural and semi-urban areas cannot access essential services or information due to language limitations. Lack of context-aware or dialect-sensitive translations: Literal word-to-word translation fails to capture the cultural, contextual, and colloquial meaning of local languages. No mobile-first, offline-accessible solution: Most rural users have limited internet access;	software	Cultural Heritage	23-10-2025
20	HOMPS-25020	Student Innovation: Swadeshi for Atmanirbhar Bharat - Robotics and Drones	There is a need to design drones and robots that can solve some of the pressing challenges of India such as handling medical emergencies, search and rescue operations, etc.	hardware	Robotics & Drones	23-10-2025
21	HOMPS-25021	Delivery of Essential Medicines by Drones in Hilly areas	Throughout the developed and developing world, access to life-saving and critical health products is hampered by what is known as the last-mile problem - the inability to deliver needed medicine/blood from a city to rural or remote locations because of inadequate transportation, communication or supply chain infrastructure. To solve this connectivity problem, a national drone delivery system needs to be created to carry urgent medicines to patients in need in Hilly and inaccessible areas. Team needs to build a drone that can deliver essential medical products/blood of up to 2.0 kilograms per flight while maintaining the cold chain if needed - in an average fulfillment time of 30 minutes. Also, it should be usable in emergencies, and disaster prone areas.	hardware	Robotics & Drones	23-10-2025

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22	HOMPS-25022	Student Innovation: Swadeshi for Atmanirbhar Bharat - Smart Vehicles	Creating intelligent devices to improve the commutation sector	software	Smart Automation	23-10-2025
23	HOMPS-25023	Student Innovation: Swadeshi for Atmanirbhar Bharat - Smart Vehicles	Creating intelligent devices to improve the commutation sector	hardware	Smart Automation	23-10-2025
24	HOMPS-25024	AI-Based Timetable Generation System aligned with NEP 2020 for Multidisciplinary Education Structures	Background: With the implementation of the National Education Policy (NEP) 2020, all higher education institutions-including Institutes of Teacher Education and general degree colleges-have transitioned to Four-Year Undergraduate Programmes (FYUP) and integrated teacher education programs like B.Ed., M.Ed., and ITEP. These programs feature flexible, creditbased, multidisciplinary structures allowing students to choose Major, Minor, Skill-Based, Ability Enhancement, and Value-Added courses. Manual timetable creation under this new framework has become extremely complex, involving numerous subject combinations, varying credit hours, student preferences, and faculty workload distribution. To manage this, colleges usually form dedicated timetable committees, but even then, clashes, underutilization of faculty, and scheduling inefficiencies persist. Description: This problem statement envisions the development of a web-based or hybrid intelligent system that can generate automated, conflict-free, optimized academic timetables alignment with the NEP 2020 course structure. The	software	Smart Automation	23-10-2025

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25	HOMPS-25025	ERP-based Integrated Student Management system	Background: Admissions, fee collection, hostel allocation, and examination records are maintained in separate ledgers. Students queue at multiple counters; staff re-enter identical data; and administrators lack a real-time institutional overview. Description: Comprehensive ERP suites can unify data but remain out of financial reach for many public colleges. Yet much of the required functionality-customised online forms, central data tables, automated receipts, real-time dashboards-already exists in ubiquitous cloud office suites. By intelligently connecting these services, an institution can create a single source of truth without large capital outlay. Essential components include streamlined admission intake, automated fee receipting, live hostel occupancy tracking, and summary dashboards for higher officials. Data security, role-based access and regular back-ups must be baked in from day one. Because staff is already familiar with basic spreadsheet and form tools, the learning curve remains shallow, ensuring broad adoption. Hackathon participants can demonstrate how thoughtful process mapping and	software	Smart Automation	23-10-2025
26	HOMPS-25026	Smart Helpdesk Ticketing Solution for IT Services	Background SSPU uses various platforms for raising IT-related tickets by employees, such as GLPI, Solman, and email. Resolution is also provided on these platforms. Employees need to navigate different portals for raising tickets, which is causing poor satisfaction. Description The proposed system will allow employees to register queries using a chatbot, email, or any other existing ticketing solution in Shri Shankaracharya Professional University, Bhilai. The system will then perform the following actions: Unified Ingestion: Identify and consolidate tickets from all sources into a single system. Automated Ticket Classification: Use NLP (Natural Language Processing) to interpret user queries and categorize them instantly. Intelligent Routing: AI will analyze the context, urgency, and historical patterns to assign tickets to the correct team automatically. Self-Service & Resolution: AI chatbots will resolve common issues (e.g., password resets, VPN access) without human intervention. Knowledge Base Suggestions: The system will recommend relevant articles or suggest the creation of	software	Smart Automation	23-10-2025
27	HOMPS-25027	Web-scrapping tool to be developed to search and report Critical and High Severity Vulnerabilities of OEM equipment (IT and OT) published at respective OEM websites and other relevant web platforms.	Background: Critical Sector organisations uses a number of IT and OT equipment (e.g. Networking and hardware device, Operating Systems, Applications, Firmware etc.). These devices/application come with vulnerabilities from time to time. There should be timely information sharing mechanism by which the concerned equipment users at critical sector orgs should be altered regarding any critical / high severity vulnerabilities in their equipment within the shortest possible time. Detailed description: The ICT components (HW/SW) being used by Critical Sector Organisations become vulnerable from time to time. These vulnerabilities can be categorised as Critical, High, Medium and Low. Any exploitation of these vulnerabilities can cause havoc in multiple Critical Sector Organisations where such vulnerable equipment are being used. Keeping in view of the above, there is a need to monitor all such vulnerability information published at the equipment's OEM websites and also other relevant websites. Once a critical or high severity vulnerability information is published	software	Blockchain & Cyber Security	23-10-2025

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28	HOMPS-25028	Centralized application-context aware firewall	Description: Develop an application firewall for end-points that can identity and restrict access of application to external network/hosts. The application firewall should provide further granular control of restricting domains, IP addresses and protocols for each application. The firewall should be manageable through a centralized web console where policies for each end-point and application can be centrally deployed. Firewall agent should also be able to monitor network usage behaviour of each application and generate alerts on central dashboard for any traffic anomaly using AI/ML. Challenge: Applying separate firewall policies for each application running on the end-point and managing them through a central web console. Usage: End-point security, network security Users: Cyber security teams Available Solutions (if Yes, reasons for not using them): Individual components are available Desired Outcome: The solution should provide following components: 1. Solution should identify the domains and protocols that any application is trying to access. Further, it should enable allowing of any such	software	Blockchain & Cyber Security	23-10-2025
29	HOMPS-25029	Fake social media accounts and their detection	Background: At present the ITBP guards 3,488 km long India-China borders ranging from the Karakoram Pass in Ladakh to Jachep La in Arunachal Pradesh. Apart from this, the Force also has important roles in many internal security duties and operations against the left wing extremism in the state of Chhattisgarh. Creating fake accounts on Facebook, Instagram or at any other platform and fake account uses, should be identify for account suspension or legal action. To safeguard the organization from the unknown fake account messages over any social sites, a tool may be developed for their identification. Also a central agency should be designated to get the information about the identified fake account holder informed by the developed tools and accordingly, concerned social site organization will approach to delete/suspend the fake account in time bound manner worldwide. Description: How to discover/identify fake profiles on Facebook, Instagram, twitter or other social apps using tools. Also subsequently how to ignored/reported/make to delete of these identified fake accounts by the tools/ through	software	Blockchain & Cyber Security	23-10-2025
30	HOMPS-25030	Student Innovation	Provide ideas in a decentralized and distributed ledger technology used to store digital information that powers cryptocurrencies and NFTs and can radically change multiple sectors	software	Blockchain & Cyber Security	23-10-2025

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31	HOMPS-25031	Software solutions to identify users behind Telegram, WhatsApp and Instagram based drug trafficking.	Background: Use of encrypted messaging/social media apps like Telegram, WhatsApp and Instagram for drug trafficking are on the rise. Channels operating on Telegram and WhatsApp and Instagram handles are blatantly being misused by drug traffickers for offering various narcotic drugs and Psychotropic substances for sale. Description: WhatsApp and Telegram channels and Instagram handles are created by drug traffickers to offer various drugs for sale to their subscribers. Customized Telegram bots are also created by some of the drug traffickers to sell drugs. It is most worrisome that majority of the drugs which are being offered on sale through Telegram, WhatsApp and Instagram are dangerous synthetic drugs like MDMA, LSD, Mephedrone etc. The above three apps are also used by drug traffickers for drug communication. Expected Solution: Development of a software solution to identify live Telegram and WhatsApp channels/bots and Instagram handles that are offering drugs for sale in India. Solution also should focus on triangulating identifiable parameters like IP address, mobile	software	Blockchain & Cyber Security	23-10-2025
32	HOMPS-25032	Creating a cyber triage tool to streamline digital forensic investigation	To design and develop an innovative digital forensics and incident response tool with an intuitive and accessible interface for investigators, that streamlines the process of importing evidence, conducting automated analysis, and generating detailed reports. The tool should feature an interface with clear navigation & real-time data visualization and should support: 1. Automated data collection from RAW images (forensic images) and other formats using disk imaging tools 2. Automate the scanning and analysis of data, including files, system logs, registry entries, network activity etc. 3. Identify indicators of compromise (IOCs) and related suspicious activities 4. Integrate AI/ML algorithms for anomaly detection and pattern recognition. The AI/ML feature should incorporate a scoring system and recommendation engine that allow investigators to quickly focus on the important artifacts. 5. User-friendly review options should include interactive timelines and graphical summaries, while comprehensive reporting capabilities should allow exports in various formats such as PDF, JSON, and CSV.	software	Blockchain & Cyber Security	23-10-2025
33	HOMPS-25033	Blockchain-Based Supply Chain Transparency for Agricultural Produce	Description Create a blockchain-based system to track agricultural produce from farm to consumer, ensuring transparency in pricing, quality, and origin. The solution should allow stakeholders (farmers, distributors, retailers) to verify transactions and reduce exploitation in the supply chain. Expected Outcome A decentralized platform with a user-friendly interface for farmers and consumers to trace produce, reducing fraud and ensuring fair pricing, deployable on low-cost hardware or cloud infrastructure. Technical Feasibility Leverages existing blockchain frameworks like Ethereum or Hyperledger, with smart contracts for automated tracking and QR code integration for consumer access.	software	Blockchain & Cyber Security	23-10-2025

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34	HOMPS-25034	Waste Segregation Monitoring System for Urban Local Bodies	This project aims to develop a smart monitoring system to improve waste segregation practices in urban areas. By deploying IoT-enabled sensors and cameras at waste collection points, the system can automatically detect and classify segregated waste categories such as biodegradable, recyclable, and hazardous materials. The platform will provide real-time data and analytics to urban local bodies for better management, timely collection, and enforcement of segregation norms. This solution promotes efficient waste handling, reduces landfill burden, and supports sustainable urban sanitation efforts	software	Urban Planning	23-10-2025
35	HOMPS-25035	Design an AI-powered traffic management solution that can analyze real-time traffic data to reduce congestion, optimize signal timing, and suggest alternate routes.	This project aims to design an intelligent traffic management system that leverages real-time traffic data from cameras, sensors, GPS devices, and mobile apps to analyze congestion patterns dynamically. Using machine learning and predictive analytics, the system will optimize traffic signal timings adaptively to improve traffic flow, reduce waiting times, and minimize bottlenecks. Additionally, it will provide alternate route suggestions to drivers via connected platforms, helping distribute traffic more evenly across the network. The solution intends to enhance urban mobility, decrease commute times, reduce fuel consumption, and lower emissions for smarter, more sustainable cities.	software	Urban Planning	23-10-2025
36	HOMPS-25036	Develop drone-based search and rescue systems	This project focuses on designing an autonomous drone system equipped with high-resolution cameras, thermal imaging, and AI-powered object detection to assist in search and rescue operations. The drones will be capable of covering large and challenging terrains quickly, identifying missing persons or victims in disaster zones, and relaying real-time data to rescue teams. By integrating AI for obstacle avoidance and efficient path planning, the system aims to save lives by reducing search times and enhancing situational awareness during emergencies.	hardware	Urban Planning	23-10-2025

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37	HOMPS-25037	Create platforms to facilitate community event planning.	This project aims to build a user-friendly platform that enables community members, local organizations, and authorities to collaboratively plan, promote, and manage local events. The platform will offer features like event scheduling, resource booking, volunteer coordination, and real-time communication, helping to foster community engagement, increase participation, and streamline logistics for festivals, clean-ups, workshops, and more.	software	Urban Planning	23-10-2025
38	HOMPS-25038	Innovative Drainage Systems to Address Urban Flooding	This project focuses on designing smart, sustainable drainage solutions that mitigate urban flooding caused by heavy rainfall and inadequate infrastructure. Using technologies like permeable pavements, real-time water level sensors, AI-driven predictive models, and modular retention basins, the system will optimize water runoff management, improve drainage efficiency, and reduce flood risks. The goal is to create resilient urban environments that protect communities, infrastructure, and ecosystems from flood-related damages.	software	Urban Planning	23-10-2025
39	HOMPS-25039	AI/ML model The Bhagavad Gita as a Guide to Psychological Resilience and Leadership	Objective: Explore the psychological and leadership lessons in the Bhagavad Gita, analyzing its relevance in modern stress management, decision-making, and leadership models. Description: The Bhagavad Gita is not just a spiritual text but also a psychological and leadership manual. Krishna's guidance to Arjuna provides insights into overcoming self-doubt, making ethical decisions, and achieving resilience in adversity. This research will explore how Bhagavad Gita's teachings can enhance personal development, corporate leadership, and mental wellbeing.	software	Indian Knowledge System	23-10-2025

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40	HOMPS-25040	AI and Location-Based Mobile Application for Guiding Visitors with Historical Insights, Statue Identification, and Step-by-Step Darshan or Pooja Assistance in Temples and Heritage Sites."	Objective : Many tourists and devotees visiting temples and heritage sites often lack access to accurate information, guided experiences, or contextual understanding of the places they visit. Traditional guides may not always be available, and static information boards provide limited details about the history, significance, and rituals associated with each location. This gap leads to a less engaging and incomplete experience for visitors. An AI and location-based mobile application can revolutionize cultural and religious tourism by offering real-time, interactive guidance within temples and heritage sites. Using GPS, image recognition, and augmented reality (AR), the app can identify statues, sculptures, and monuments to provide detailed descriptions, historical context, and mythological stories. Inside temples, it can guide devotees through the proper sequence of darshan or pooja rituals, offering audio or visual instructions in multiple languages for an inclusive experience. By integrating AI, AR, and multilingual voice assistance, this solution can enhance visitor engagement, preserve cultural	software	Indian Knowledge System	23-10-2025
41	HOMPS-25041	Student Innovation: Swadeshi for Atmanirbhar Bharat - Toys & Games	Challenges your creative minds to conceptualize and develop unique toys & games.	software	Toys & Games	23-10-2025
42	HOMPS-25042	Student Innovation: Swadeshi for Atmanirbhar Bharat - Toys & Games	Challenges your creative minds to conceptualize and develop unique toys & games.	hardware	Toys & Games	23-10-2025

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Sno	Problem Statement ID	Problem Statement Title	Description	Category	Theme	Deadline for Idea Submission
43	HOMPS-25043	Student Innovation: Swadeshi for Atmanirbhar Bharat - Miscellaneous	Technology ideas in tertiary sectors like Hospitality, Financial Services, Entertainment and Retail.	software	Miscellanous	23-10-2025
44	HOMPS-25044	AI and ML enabled video analysis and interpretation	Problem Today, NSG is operating a myriad of Surveillance Systems ranging from medium range surveillance drones to small two wheel robots and body cams. The vast amount of video data available to an ICP can become unmanageable to be analysed physically and in the bargain important information can be overlooked. There is currently no automated tool/software for carrying out this analysis without human interference. Description AI/ML-Powered Video Analysis AI/ML-powered video analysis automates the process of extracting meaningful insights from video footage, enabling machines to interpret complex visual data, identify patterns, and track movement with minimal human intervention. This technology utilizes machine learning and deep learning techniques to analyse video content, identify objects and understand actions or events occurring within the video. The benefits which will accrue are given as under: AI systems can analyse video feeds from surveillance cameras, drones, and other sources in real-time, identifying unusual behaviour or potential threats that might be	software	Miscellanous	23-10-2025
45	HOMPS-25045	AI/ML-Powered Video Streaming Mobile App with Multi-Source Connectivity for Android Devices	Overview: With the rapid growth in digital media consumption, users are overwhelmed with fragmented access to video content spread across local drives, cloud storage (e.g., Google Drive), and public platforms like YouTube. Additionally, smart TVs and Android devices often lack a unified, intelligent video streaming solution that aggregates content from various sources and personalizes the viewing experience. The Problem: Fragmented Media Sources: Users store and consume video content from multiple sources—local storage (e.g., external hard disks), Google Drive, YouTube, etc.—with no centralized way to access all of it efficiently. Lack of Personalization: Traditional media players and streaming apps lack AI-driven personalization features that tailor recommendations based on user preferences, history, or content types. Device Compatibility Issues: Many apps either support only mobile or only TV platforms, creating a fragmented user experience across Android phones, tablets, and Android TVs. Manual Management of Content: Users often manually search, sort, and organize their	software	Miscellanous	23-10-2025

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46	HOMPS-25046	Development of a Digital Mental Health and Psychological Support System for Students in Higher Education	Problem Statement: Context: Mental health issues among college students have significantly increased in recent years, including anxiety, depression, burnout, sleep disorders, academic stress, and social isolation. However, there is a major gap in the availability, accessibility, and stigma-free delivery of mental health support in most higher education institutions, especially in rural and semi-urban colleges. Problem Faced: - Absence of a structured, scalable, and stigma-free psychological intervention system. - Lack of early detection and preventive mental health tools. - Under-utilization of college counselling centres due to fear of judgment or lack of awareness. - No centralized mental health monitoring or data-driven policy framework within institutions. Proposed Technological Challenge: Develop a Digital Psychological Intervention System (web-based and/or mobile app) with the following capabilities: 1. AI-guided First-Aid Support: Interactive chat box that offers coping strategies and refers students to professionals when needed. 2. Confidential Booking System: For	software	Miscellanous	23-10-2025
47	HOMPS-25047	Student Innovation: Swadeshi for Atmanirbhar Bharat - MedTech / BioTech / HealthTech	Cutting-edge technology in these sectors continues to be in demand. Recent shifts in healthcare trends, growing populations also present an array of opportunities for innovation.	software	Miscellanous	23-10-2025
48	HOMPS-25048	Unified Digital Platform for Streamlined Citizen Access to Government Services and Schemes in Raipur District.	Citizens often face fragmented and inconsistent access to government services, with information and facilities spread across multiple departments, portals, and physical offices. This lack of integration forces people to navigate complex procedures, visit multiple offices, and submit the same documents repeatedly, leading to delays, higher costs, and frustration. For those in rural and underserved areas, limited digital literacy and connectivity make access even more challenging, widening the gap in service delivery. A unified platform like SARAL can streamline and centralize access to government schemes and services, offering citizens a single, transparent, and user-friendly interface. By integrating various departments and ensuring interoperability, SARAL can improve accessibility, enhance efficiency, reduce bureaucratic hurdles, and deliver public services more equitably and effectively. SARAL is a unified digital platform designed to provide citizens with streamlined access to essential public services, government schemes, and civic utilities through a single interface. The	software	Miscellanous	23-10-2025

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Sno	Problem Statement ID	Problem Statement Title	Description	Category	Theme	Deadline for Idea Submission
49	HOMPS-25049	AI-Powered Intelligent Traffic Management System for Optimizing Urban Mobility in Raipur.	Urban India faces severe traffic congestion, resulting in longer commute times, increased fuel consumption, higher pollution levels, and reduced productivity. The rapid growth of cities, rising vehicle ownership, and limited road infrastructure have worsened traffic bottlenecks, while traditional traffic management systems struggle to respond effectively to dynamic conditions. Manual monitoring and fixed traffic signals fail to adapt to real-time congestion, leading to inefficient traffic flow and frequent gridlocks. By leveraging artificial intelligence (AI)-powered traffic management systems, cities can analyze real-time data from cameras, sensors, and GPS devices to predict traffic patterns, adjust signal timings dynamically, and optimize traffic flow. Such solutions can help reduce congestion, improve commuter experience, cut emissions, and make urban mobility more sustainable and efficient. Expectations ● Develop AI-based traffic signal coordination. ● Integrate real-time traffic sensors and data. ● Provide predictive traffic management dashboards. (Source: District Administration Raipur)	software	Miscellanous	23-10-2025
50	HOMPS-25050	AI-Driven Smart Waste Management System for Efficient and Sustainable Urban Cleanliness in Raipur.	Solid waste management in many cities is often inefficient and struggles to keep pace with rapid urbanization and population growth. Ineffective waste collection schedules, lack of real-time monitoring, poor segregation at source, and limited data-driven decision-making lead to overflowing bins, irregular pickups, higher operational costs, and environmental hazards. Manual processes and outdated systems also contribute to delays, resource wastage, and health risks for sanitation workers and residents. By leveraging AI-based solutions, municipalities can use real-time data from sensors, cameras, and tracking systems to optimize waste collection routes, predict waste generation patterns, ensure timely pickups, and improve segregation and recycling. Such smart waste management systems can enhance operational efficiency, reduce costs, minimize environmental impact, and help cities transition toward cleaner and more sustainable urban living. Expectations ● Implement AI-driven waste collection and routing. ● Integrate IoT for bin monitoring. ● Reduce costs via smart resource	software	Miscellanous	23-10-2025