Sr. No.	Problem Title	Problem Description	Problem Code	Domain
1	**Spam Email Classifier**	*Develop an AI model to automatically filter spam emails by analyzing text patterns (e.g., keywords, links). Use NLP techniques like TF-IDF and classification algorithms (Naive Bayes, SVM) to achieve high accuracy.*	AM01	AI/ML
2	**AI-Based Code Review Assistant**	*Build an AI-powered tool that analyzes code, detects potential bugs, security vulnerabilities, and suggests optimizations using machine learning techniques.*	AM02	AI/ML
3	**Autonomous Threat Detection in Video Surveillance**	*Create an AI-driven surveillance system that uses deep learning for real-time threat detection, including weapons, violence, and suspicious activities in crowded areas.*	AM03	AI/ML
4	**AI Bot with Voice Assistance**	*Develop an AI bot with a Voice assistant that listens to end-user questions/queries and replies back with a proper response(S2S) system. The challenge here would be that the end user can speak in any language and the bot should be able to respond in the same language. The AI bot should have a character and a back story (For example, A rude banker who hesitates to answer the query to the customer or a soft and humble actor who loves to respond to his fans) and should stick to it. The bot should answer only related to its backstory and character.*	AM04	AI/ML
5	**AI-Driven Crop Production Prediction System with Location-Specific Recommendations**	*Develop a machine learning-based system to predict crop production for specific geographic regions (e.g., districts, agroecological zones) and provide tailored recommendations for optimizing yield based on local environmental, climatic, and socio-economic factors.*	AM05	AI/ML
6	**Intelligent Document Summarization for Efficient Information Extraction**	*Develop an AI-powered tool that automatically generates concise and accurate summaries of lengthy documents (e.g., research papers, legal contracts, news articles). The system should extract key information, preserve context, and adapt to different document types and domains (e.g., healthcare, finance, education).*	AM06	AI/ML
	AI-Powered Skilling & Career Acceleration in EdTech	*Running an Ed-Tech Platform, providing opportunities of Skilling, Internships & Work for students. How can you leverage AI to build some cool features which can be monetized*	AM07	AI/ML
7	**Blockchain-Based Secure Voting System**	*Design a blockchain-based e-voting platform that ensures secure, transparent, and tamper-proof elections with verifiable results.*	CB01	Cyber Security and Blockchain
8	**Blockchain for Secure Digital Certificates**	*Design a blockchain-based system to verify academic or professional certificates.*	CB02	Cyber Security and Blockchain
9	**Blockchain-Based Website-Certificate Verification**	*Train a classifier to identify phishing URLs using features like domain age, HTTPS status, and IP reputation. Compare models like Decision Trees vs. Neural Networks.*	CB03	Cyber Security and Blockchain
10	**Encrypted File Sharing System**	*Create a secure P2P file-sharing platform with AES encryption for files and blockchain to log access requests. Ensure privacy and traceability.*	CB04	Cyber Security and Blockchain
11	**Developing a Tool for Real-Time Cyber Incident Feeds for Indian Cyber Space**	*Create a framework to crawl, collect, and analyze cyber incidents reported on various platforms, providing real-time feeds specific to Indian cyber space.*	CB05	Cyber Security and Blockchain
12	**Smart Agriculture Monitoring System**	*Simulate a sensor network (soil moisture, humidity) to monitor crop conditions. Send automated SMS/email alerts to farmers using IoT platforms like ThingSpeak.*	IOT1	Internet of Things
13	**Fall Detection Wearable for Elderly**	*Build a wearable device with motion sensors (accelerometer) to detect falls. Trigger emergency alerts via Bluetooth/Wi-Fi using edge ML models.*	IOT2	Internet of Things
15	**Air Quality Monitoring Dashboard**	*Collect real-time air pollution data (CO2, PM2.5) using sensors, and visualize trends on a web dashboard.*	IOT4	Internet of Things

16	**Serverless Image Resizing**	*Deploy a serverless function (AWS Lambda) to automatically resize images uploaded to cloud storage. Optimize for scalability and cost-efficiency.*	CL01	Cloud Computing
17	**Auto-Scaling Web Server**	*Configure a cloud-based web server with auto-scaling to handle traffic spikes. Use Terraform to automate infrastructure provisioning.*	CL02	Cloud Computing
18	**Cloud-Powered Smart Shopping Cart for Automated Inventory Detection and Billing**	*Design a smart shopping system that detects and processes items added to a cart, enabling automatic billing without checkout lines. The solution should utilize cloud computing for real-time inventory tracking, billing, and data processing to ensure speed and scalability*	CL03	Cloud Computing
19	**Real-Time Chat App with WebSockets**	*Build a scalable chat application using serverless WebSockets (AWS API Gateway) and a NoSQL database for message history.*	CL04	Cloud Computing
20	**Cloud-Based Data Loss Prevention System**	*Design a cloud security solution that detects sensitive data leaks in cloud storage and applies encryption or access control policies automatically.*	CL05	Cloud Computing
21	**Sales Forecasting for Retail**	*Predict future sales using time-series analysis (ARIMA, Prophet) on historical data. Identify trends and seasonal patterns for inventory planning.*	DA01	Data Science and Analytics
22	**Predictive Maintenance for Industrial Machinery**	*Use data science to develop a predictive maintenance system for industrial equipment. The system should be able to detect anomalies and predict when maintenance is required, reducing downtime and increasing productivity.*	DA02	Data Science and Analytics
23	**Social Media Sentiment Dashboard**	*Analyze public sentiment on social media (e.g., Twitter, Reddit) around a topic/event. Use any scraping, NLP, or visualization tool to present results which may be used in targeted advertising.*	DA03	Data Science and Analytics
24	**Anomaly Detection in Network Traffic**	*Identify unusual patterns in network traffic that could indicate cyberattacks. Apply statistical methods or ML models to flag anomalies.*	DA04	Data Science and Analytics
25	Real-Time Sentiment Analysis for Customer Feedback	*Develop a data analytics tool that processes customer reviews and social media feedback to determine sentiment trends and improve business decision-making.*	DA05	Data Science and Analytics