

# PROBLEM STATEMENTS

## **1. AI-Powered Exam Cheat Detection**

Uses AI-powered computer vision and behavior analysis to detect cheating in both online and offline exams, ensuring academic integrity.

## **2. Secure Campus Elections Using Blockchain**

A decentralized voting system that ensures transparent and tamper-proof student elections using blockchain smart contracts.

## **3. AI-Powered Resume Analyzer**

An AI-based platform that scans resumes, matches them with job descriptions, and suggests improvements for better employability.

## **4. Blockchain-Based Used Book & Notes Marketplace**

A blockchain-powered platform where students can securely buy, sell, or exchange books and study notes with verified ownership.

## **5. AI for Disaster Response and Relief Management**

Uses AI-driven image processing and social media analysis to identify affected areas, coordinate rescue efforts, and optimize relief distribution.

## **6. Crypto-Powered Charity Donations Tracker**

A transparent donation tracking system that ensures accountability in fund transfers using blockchain and smart contracts.

## **7. Smart Classroom Energy Saver**

IoT-based automation that adjusts lighting, temperature, and other utilities based on classroom occupancy, reducing energy waste.

## **8. AI-Powered Meeting Summary Generator**

A speech-to-text AI model that records meetings, extracts key points, and provides action items for better productivity.

## **9. Real-Time Campus Noise Pollution Monitor**

An IoT-based solution that detects and maps noise pollution levels on campus, helping improve study environments.

### **10. Gamified Digital Detox & Study Focus App**

A mobile app that encourages users to reduce screen time and focus on studies using AI-driven goal tracking and gamification.

### **11. Decentralized Research Journal & Peer Review System**

A blockchain-based research publishing system where academic papers are submitted, reviewed, and published without bias.

### **12. AI-Powered Club & Community Matchmaking**

An AI-driven social networking tool that connects students with campus clubs, communities, and like-minded peers based on their interests.

### **13. Supply Chain Transparency for Campus Stores**

A blockchain-powered tracking system that verifies product authenticity and ensures ethical sourcing for items sold on campus.

### **14. “Researcher Hive” - Web portal for researchers**

Well-structured, modular, and secure web portal for researchers to connect, collaborate, and share research work. [View More](#)

### **15. Silent Help App for Night Safety**

A mobile app that allows users to trigger emergency alerts discreetly (e.g., by pressing a button combination) for personal safety at night.

### **16. AI-Powered Personal Finance Manager**

An AI-driven financial assistant that analyzes spending habits, suggests budgeting strategies, and tracks savings goals.

### **17. AI-Based Smart Exam Seating Planner**

Uses AI to generate optimal seating arrangements in examination halls, minimizing chances of cheating and maintaining fairness.

### **18. AR-Based Campus Tour Guide**

An Augmented Reality app that provides interactive campus tours by overlaying digital information onto real-world locations.

### **19. Blockchain-Based Digital Certificates**

A blockchain-secured system that issues, verifies, and stores academic certificates, preventing forgery and credential fraud.

## **20. Offline Multilingual AI-Based Campus Guide**

An AI-powered guide that translates campus signboards and directions into multiple languages without requiring an internet connection.

## **21. AI Chatbot for Mental Health Support**

An AI chatbot that detects stress and anxiety patterns, offering personalized mental health support and coping strategies.

## **22. AI for Women's and Child Safety**

A real-time safety alert system that analyzes suspicious behavior and sends emergency notifications based on AI motion tracking.

## **23. Lost & Found Board for Campus**

An AI-powered platform where students upload images of lost items, and machine learning algorithms match them with found objects.

## **24. Event Ticketing System with NFT Verification**

A blockchain-based NFT ticketing system that prevents fraud, scalping, and unauthorized resale of event tickets.

## **25. Automated Internship & Project Recommendation System**

A recommendation engine that analyzes student profiles and suggests the best internships and projects based on their skills and interests.

## **26. Socially Responsible Food Delivery System**

An AI-based food delivery platform that connects restaurants with surplus food to shelters and students in need, reducing food waste.

## **27. AI-Based Personalized Networking Recommender**

A machine learning model that suggests valuable academic and professional connections based on user interests and career goals.

## **28. AI-Powered Academic Advisor**

An intelligent recommendation system that helps students choose the best elective courses based on their past performance and preferences.

### **29. Smart Study Planner**

An AI-driven planner that organizes study schedules, sends reminders, and adapts study plans based on upcoming exams and deadlines.

### **30. Decentralized AI Model Sharing Platform**

A blockchain-backed marketplace where AI developers can share, verify, and monetize their machine learning models securely.

### **31. AI-Powered Custom Speech Trainer**

An AI-based tool that analyzes pronunciation, fluency, and accent, offering real-time feedback for language learners.

### **32. AI-Powered Traffic Violation Detector**

A computer vision-based system that detects and records traffic violations, helping enforce road safety.

### **33. Campus Navigator & Event Hub**

A smart campus app that provides real-time navigation, event updates, and accessibility support for students and visitors.

### **34. AI-Based Experiment Analyzer**

A lab automation tool that uses object detection to verify if scientific experiments are performed correctly, ensuring accuracy.

### **35. AI-Powered Smart Dormitory System**

An AI-integrated dormitory management system that controls appliances, optimizes electricity use, and enhances security.