

AMAN KUMAR

Full Stack Developer • AI Enthusiast • B.Tech CSE, JECRC University (2025–2029)

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EDUCATION

B.Tech in Computer Science & Engineering — JECRC University, Jaipur

2025 – 2029

Coursework: Data Structures & Algorithms, OOP (C++), Web Development, AI/ML Fundamentals

TECHNICAL SKILLS

Languages: JavaScript, Python, C++, Swift (basic), Go (basic), Dart (basic)
Frontend: HTML5, CSS3, JavaScript (ES6+), Responsive Design, UI/UX, Figma
Backend: Node.js, Express.js, REST API Design, Railway, Vercel
AI / Data: YOLOv8, OpenCV, Pandas, Data Analysis, Prompt Engineering
Tools: Git, GitHub, VS Code, Xcode

PROJECTS

Hacknex — Production Discord Bot — *Node.js, discord.js, Axios, Cheerio, node-cron, Railway*

- Engineered a live, production-grade Discord bot actively serving real communities, aggregating hackathon listings from Devfolio, Unstop, and MLH in near real-time
- Designed a multi-source data normalization pipeline, unifying event schemas across 3 platforms into a consistent, queryable format
- Implemented ID-based deduplication logic eliminating 100% of duplicate alerts across automated hourly cron cycles
- Deployed on Railway with environment-variable-secured configuration supporting seamless multi-server distribution

Smart Parking AI System — Hackathon Build — *Python, YOLOv8, OpenCV, Node.js, Express.js, JavaScript*

- Built an end-to-end AI parking management system that converts AutoCAD DXF blueprints into live digital parking maps
- Implemented real-time vehicle detection using YOLOv8 and OpenCV on video feeds, with polygon-zone occupancy mapping and vote-based frame counters to eliminate false positives
- Engineered a smart slot recommendation engine that calculates and simulates navigation paths to the nearest available slot
- Delivered a full-stack solution with a REST API backend (Node.js/Express.js) and a live dashboard frontend showing real-time availability

Pomodoro Timer — iOS App — *SwiftUI, UserDefaults, UserDefaults*

- Built a modular SwiftUI app with custom circular timer engine, animated progress UI, and background audio/push alerts
- Persisted user settings via UserDefaults; enforced clean separation of Business Logic and View layers for maintainability

IPL Data Analysis — *Python, Pandas*

- Performed exploratory data analysis on IPL datasets to surface team win-rate trends, player performance patterns, and match outcome insights

Pokémon Weather App — *JavaScript, WeatherAPI, HTML/CSS*

- Integrated live WeatherAPI to fetch real-time city data and dynamically rendered Pokémon-themed UI based on weather conditions
- Built a fully responsive layout optimized for both mobile and desktop with clean API data parsing and conditional rendering

CERTIFICATIONS

- IBM Python for Data Science, AI & Development — Coursera / IBM (Mar 2026)
- Deloitte Data Analytics Job Simulation — Forage (Mar 2026)
- The Ultimate Job-Ready Data Science Course — CodeWithHarry (Feb 2026)

ACHIEVEMENTS & ACTIVITIES

- Top 4 Finalist — Bug Bounty track, Innov8 Tech Fest 2025
- Hackathon Participant — Hack Arya Verse 2.0; built and presented Smart Parking AI System, an AutoCAD-to-digital-map pipeline with real-time YOLOv8 vehicle detection and smart slot navigation