

Alok Gupta

Gorakhpur 7752953990 alokg7055@gmail.com [LinkedIn: alok-gupta-me](#) [GitHub: alokg-812](#)

Objective

Data Science and Applications student at IIT Madras with hands-on experience in machine learning, full-stack development, and real-time analytics. Proven track record of solving real-world problems through impactful projects such as Guardian of the Roads (IoT-based road safety system) and EmergencyCare (guiding user about emergency services). Experienced in leading and contributing to diverse hackathons including HackVortex, UYIR Challenge, and BuildVerse. Passionate about building inclusive, data-driven solutions and always open to collaborating on meaningful and innovative projects.

Education

Indian Institute of Technology Madras

Bachelor of Science in Data Science

Cumulative Grade: 8.13

May 2024 – Ongoing

Skills

Product Management: Roadmap Planning, Agile Methodologies, User Research, Market Analysis

Data Science & Analytics: Python, SQL, Tableau, Power BI, A/B Testing, Data-Driven Decision-Making

AI & Machine Learning: Classification Models, Predictive Analytics, Model Optimization

UI/UX & Prototyping: Figma, Notion, User Experience Testing

Full-Stack Development: HTML, CSS, Bootstrap, JavaScript

Soft Skills: Analytical Thinking, Problem-Solving, Strategic Planning, Stakeholder Management, Communication

Languages: English (Proficient), Hindi (Native)

Experience & Projects

Guardian of the Roads – Road Safety Risk Prediction

Product Strategy & ML Prototype

- Spearheaded the product vision for an AI-driven road safety prototype aimed at reducing accident risks through simulation and predictive insights.
- Designed a real-time risk assessment dashboard integrating IoT concepts and early-stage detection models.
- Presented the concept to IAS officials and policymakers, receiving commendation for its potential real-world application.

Election Prediction Model – Forecasting Public Sentiment

Academic Project — Predictive Analytics

- Developed a prototype forecasting tool with 90.6% accuracy using historical election data.
 - Conducted sentiment analysis to interpret public opinion and explore electoral trends.
 - Experimented with models like XGBoost and Logistic Regression to generate actionable insights.
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Achievements & Leadership

- Finalist – Hackathon: Guardian of the Roads (Presented to IAS of Coimbatore and recognized by industry leaders)
- Competitive Programming: CodeChef 1400+ Rating, Codeforces Participant
- Winner – LogiTHON 2025 (Ranked #1 out of 100+ teams in Supply Chain Optimization)
- Finalist – Quantathon 2025 (Top 5% performer in Data Science Competition, IIT Madras)
- Finalist – Shaastra Programming Contest 2025 (IIT Madras)