Ajit Patel

Greater Noida, UP, India | ajitpatel00nwd@gmail.com | +91 9304182172
LinkedIn | GitHub | Portfolio | LeetCode

PROFILE

Aspiring Frontend Developer and AI/ML Engineer with strong expertise in ReactJS, JavaScript, and modern web development fundamentals, experienced in building responsive, interactive, and API-driven applications while developing predictive and anomaly detection models using robust data preprocessing, feature engineering, and scalable machine learning evaluation techniques.

EDUCATION

B.Tech CSE (AI & ML) 2022 – 2026
Bennett University, Greater Noida, India CGPA: 8.3
10th: 82% | 12th: 83%

EXPERIENCE

Machine Learning Intern – Encryptix Jun 2024 – Jul 2024

- Developed and evaluated ML models for fraud detection and classification using Titanic, Iris, and Credit Card Fraud datasets with EDA and feature engineering.
- Extracted actionable insights through model analysis and visualization using Python, Pandas, and Scikit-learn.

PROJECTS

SmartSupport — AI-Driven Ticket Management Backend (In Progress) [GitHub]

- Built an AI-powered, event-driven backend system to automatically analyze, prioritize, and route support tickets using Google Gemini AI and Inngest.
- Implemented asynchronous background workflows for AI processing, skill-based moderator assignment, and email notifications without blocking API requests.
- Designed a secure, scalable backend architecture with JWT-based role management (User / Moderator / Admin) and a clean MongoDB data model.

GCNShield — Graph-Based Fraud Detection Framework [GitHub]

- Built an AI-driven fraud detection system integrating GCN with LSTM and ARIMA for real-time monitoring.
- Achieved 93.4% accuracy, 96.7% precision, and reduced false positives by 30%.
- Implemented three-phase GCN evolution with dropout, SMOTE balancing, and custom loss functions.
- Designed a scalable, API-ready and streaming-ready framework using TensorFlow and PyTorch Geometric.

Car Purchasing Recommendation System [Live] [GitHub]

- Developed a personalized car recommendation engine using user preferences and budget constraints.
- Built a responsive ReactJS frontend integrated with backend APIs and connected to 50+ dealerships.
- Achieved 85% accuracy in predicting expenses and vehicle fit.

PUBLICATION

Beyond Poverty: Identifying the Overlooked Factors Influencing Education Feb 2025
Published at CICTN-2025 (IEEE Conference), ABES Engineering College, Ghaziabad. Analyzed hidden factors affecting educational outcomes using data analytics and machine learning.

TECHNICAL SKILLS

Languages: Python, C++, Java(Basic) JavaScript, TypeScript (Beginner), SQL, HTML, CSS
Frameworks: ReactJS, Node.js (Basics), Express.js, TailwindCSS
Databases: MongoDB, MySQL, Mongoose (ODM)
Data Science & ML: Pandas, NumPy, Scikit-learn, Matplotlib, TensorFlow, Time Series Analysis, EDA, Neural Networks (Basics), NLP(Basic)
Tools & Platforms: Git, GitHub, JIRA, Power BI, Inngest, Google Gemini API, JWT, Nodemailer

CERTIFICATIONS

Object-Oriented Data Structures in C++ — UIUC Oct 2023
Google Data Analytics Capstone — Google Oct 2023
Practical Time Series Analysis — SUNY Mar 2025
Machine Learning Capstone — IBM Mar 2024