

Ayush Dey

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SKILLS SUMMARY

• Languages:	C, C++, Java, Python
• Libraries & Frameworks:	NumPy, Pandas, Matplotlib, Scikit-learn, OpenCV, Scikit-image
• Tools/Platforms:	VS CODE, Git, GitHub, Kaggle, JIRA, Vercel, MongoDB
• Backend:	Node.js, Express.js, JWT Authentication, RESTful APIs
• Soft Skills:	Team Collaboration, Problem-Solving, Leadership, Project Management

PROJECTS

FundConnectAI GITHUB	Jun 2026 - Jul 2026
• Architected a full-stack crowdfunding platform using React, Node.js, Express, and MongoDB, featuring a social-media-style campaign feed and analytics. • Integrated LLM APIs via OpenRouter to generate automated campaign copy and compute dynamic AI Trust Scores to evaluate campaign credibility. • Implemented secure Razorpay payment processing, Cloudinary media pipelines, and JWT authentication with role-based access control.	

Vernacular_FD_Advisor GITHUB	Apr 2026 - May 2026
• Developed an end-to-end multilingual financial advisory chatbot supporting 3 Indian languages (Hindi,Telugu,English) and transliterated text (Hinglish) using LLMs (Groq/OpenAI) and Express.js. • Engineered a lightweight NLP pipeline combining Unicode script range analysis and keyword heuristics for real-time language detection, intent classification, and financial entity extraction (e.g., tenure, principal amounts). • Executed a deterministic calculation and simulated booking engine, translating natural language financial queries into real-time Fixed Deposit return projections and structured transaction summaries.	

IOT Sensor Data Compression AutoEncoder GITHUB	Mar 2026 - Apr 2026
• Designed a deep autoencoder compression pipeline in PyTorch to compress 6-channel multivariate IoT telemetry (CO, LPG, smoke, temperature, humidity, light) into a compact latent representation, reducing transmission bandwidth and storage overhead. • Formulated an end-to-end evaluation framework utilizing MSE and MAE reconstruction loss alongside adaptive error thresholding to validate signal fidelity and preserve critical environmental variance during decompression. • Built a full-stack real-time analytics system pairing a FastAPI inference backend with a React & Recharts dashboard for batch sensor data ingestion, dynamic compression benchmarking, and interactive signal reconstruction visualization.	

TRAINING

AI-Driven MERN Stack Bootcamp Certificate	Jun 2026 - Jul 2026
• Completed an AI-Driven MERN Stack Bootcamp focused on full-stack development, DevOps, and real-world project implementation. • Created hands-on expertise in developing full-stack applications using MongoDB, Express.js, React.js, and Node.js. • Applied modern development practices including REST APIs, database integration, deployment workflows, and scalable application development.	

CERTIFICATES

• React.js - TechVeda Link	Mar 2025
• Basic to Beyond Python - Cse Pathshala Link	Jan 2025
• Linux Command and Shell Scripting - Skillera Link	Nov 2024

EDUCATION

• Lovely Professional University Bachelor of Technology - Computer Science and Engineering CGPA: 8.4	Punjab, India Since Aug 2024
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