

PRATEEK SHUKLA

📞 +91 760 766 5801 4944.prateek@gmail.com  LinkedIn  GitHub  LeetCode

Summary

Upcoming B.Tech graduate with a strong foundation in software engineering and backend development. Quick learner, effective in both team and independent roles.

Education

- **Thapar Institute of Engineering and Technology** Sep 2022 – May 2026
B.Tech in Computer and Electronics Patiala, Punjab
– CGPA: 8.17

Technical Skills

- Languages: JavaScript, TypeScript, Python, C/C++
- Backend & WebTools: Node.js, Express.js, MongoDB, PostgreSQL, FastAPI, HTML, CSS, TailwindCSS, React.js
- Cloud: AWS (EC2, S3, DynamoDB, RDS, SNS, SQS)
- AI/ML: Machine Learning, Deep Learning, TensorFlow, Scikit-learn
- Developer Tools: Git, GitHub, Linux

Experience

- **EDUREKA** July 2024 – Oct 2024
Data Science Trainee Remote
– Worked on data analysis projects utilizing **Python**, **Pandas**, **NumPy**, and Machine Learning algorithms.
– Built and optimized ML models, improving accuracy by 40% using Python and Scikit-learn.
– Implemented exploratory data analysis (EDA) to extract insights and visualize trends using **Matplotlib** and Seaborn.

Projects

- **Path Panda - Multi-Modal Route Optimizer [Github]** *Node.js, FastAPI, Python, NetworkX, MongoDB, REST API*
– Developed **Path Panda**, an engine to find the **cheapest** routes between cities using multi-modal transport (train, bus).
– Built a data pipeline integrating **IRCTC API** and scraped bus routes, storing them in **MongoDB**.
– Implemented **modified Dijkstra's algorithm** for route optimization, modeling cities as multi-mode nodes
– Enabled mode switching between transport types and optimized for fare and mode transfers.
- **RailGo - PNR Tracking and Subscription System [Github]** *Node.js, Express, MongoDB, AWS, REST API*
– Designed a backend service to let authenticated users subscribe to Indian Railways PNR status updates.
– Integrated RapidAPI IRCTC PNR API to fetch real-time journey details like Train No, Arrival/Departure time, etc.
– Stored user-specific PNR subscriptions in MongoDB with JWT-based authentication middleware.
– Implemented future-ready notification system using **AWS SNS** to send journey details via email.

Leadership & Extracurricular

- **AIESEC in Patiala** Feb 2024 – Feb 2025
Head of Membership Development Thapar Institute
– Led a team of 75 members, fostering collaboration and growth.
– Organized a Regional Conference with 120+ attendees.
- **Puranchandra Vidyarniketan** Apr 21 – Apr 22
President, Tech Society Kanpur, Uttar Pradesh
– Led a team of 80+ members to organize an interschool tech fest.
– Collaborated with faculty to manage budgets and execution.