Sparsh Tripathi

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Summary

Aspiring AI/ML Engineer skilled in **Deep Learning, Full-Stack Development, and Cloud Computing**. Experience in **Neural Networks (CNN, RNN), AI Model Deployment, and Recommender Systems**. Solved **130+ LeetCode problems**, participated in **competitive programming**, and built scalable AI solutions.

Technical Skills

Programming: Java (OOPs), Python, C, C++
AI/ML Frameworks: TensorFlow, PyTorch, Keras
Data Science: Pandas, NumPy, Scikit-learn, Matplotlib
Deep Learning: CNN, RNN, Recommender Systems, NLP
Web Development: HTML, CSS, JavaScript, React, Node.js, Express.js
Competitive Coding: LeetCode (130+), Codeforces (35 problems, Rating 575)
Languages: English, Hindi, Learning Japanese (JLPT N5)

Education

B.Tech in Computer Science & Engineering
VIT Bhopal — CGPA: 7.95 — Expected Graduation: 2026
BOYS HIGH SCHOOL AND COLLEGE, PRAYAGRAJ
Class X:- 89 % - 2019 ; Class XII:- 91.2% - 2021

Certifications

- **DSA (Java) Bootcamp** – Udemy
- **Full-Stack Development Bootcamp**,UI/UX– Udemy
- **IBM Professional AI Engineer Certification**-Coursera
- **IBM Generative AI Certification** (In Progress)
- **Cloud Computing** – NPTEL

Projects

House Price Prediction (ML — Regression Model)
- Built a predictive model using **Linear Regression & Decision Trees**.
- Achieved **92% accuracy** using feature engineering and hyperparameter tuning.

Car Showroom Management System (Java OOPs)
- Developed a **Java-based inventory system** using **Object-Oriented Programming (OOPs)**.
- Implemented file handling, data storage, and CRUD operations.

Customer Churn Prediction (ML — Classification Model)
- Built a classification model using **Random Forest & Logistic Regression** to predict customer churn.
- Improved model precision by **15%** through hyperparameter tuning.

IPL Data Analysis (Data Science — Python)
- Performed **EDA (Exploratory Data Analysis)** on IPL dataset using **Pandas & Matplotlib**.
- Generated insights on **team performance, player stats, and match-winning patterns**.

Stock Price Prediction (AI — Time Series Forecasting)
- Developed a **LSTM-based time series model** to predict stock prices with **85% accuracy**.
- Used **historical stock data** and optimized with **hyperparameter tuning**.

Achievements & Competitions

- Solved **130+ LeetCode Questions** — Rating:1421 - **Codeforces Rating: 575** — Solved 35+ Problems
- **Captained College Football Team**, winning **2-3 titles**