Yashvi Rajpal

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in LinkedIn — ⌗ GitHub — </> LeetCode

Education

B.Tech in Computer Science Engineering
Bennett University, Greater Noida, Uttar Pradesh — CGPA: 8.0   2022 – 2026

Work Experience

Software Development Intern — Multiplexer Solution Pvt. Ltd.   (2025 – Present)

- Contributing to backend and frontend development using Python (FastAPI), React.js, and PostgreSQL, delivering features that support 500+ active users.
- Developed and deployed REST APIs with AWS integration and Docker-based containerization, reducing deployment time by 30%.
- Collaborating with a team of 6 developers using GitHub-based CI/CD workflows to maintain clean, scalable code.

Machine Learning Intern — Cognizant (IIT Roorkee)   (2024)

- Increased classification model accuracy by 12% through feature engineering and hyperparameter tuning.
- Reduced retraining time by 25% using cross-validation and automated experiment tracking.

Java Programming Intern — Codetech IT Solutions   (2024)

- Refactored code to reduce runtime by 30% and added unit tests covering 80% of modules.
- Assisted in debugging and code reviews, decreasing bug reports by 20%.

Research Work

Sign Language Recognition using Deep Learning — with Dr. Pooja (2025)

- Enhanced recognition models tested on **5,000+** frames, improving accuracy by **15%**.
- Proposed OpenCV-based improvements for robust real-time deployment.

Dataset of RADARSAT-1 Standard Beam SAR Images — with Dr. Vikas Jain (2024)

- Designed deep learning methods for despeckling on a dataset of **10,000+** SAR images, improving clarity by **18%**.
- Demonstrated applications of despeckled SAR data for accurate remote sensing and Earth observation.

Projects

Dois Bros Web Application   🌐 Live Demo
Tech Stack: React.js, Node.js, Express.js, MongoDB, Stripe Payment Gateway, REST APIs

- Built a food ordering platform with menu browsing, order placement, and live order tracking.
- Developed an admin dashboard to update menus/orders in real time, reducing manual coordination by **40%**.

GovinfoHub   🌐 Live Demo
Tech Stack: React.js, Node.js, Express.js, Google Translate API, OpenAI API, MongoDB

- Built a chatbot with Google Translator integration to explain scheme eligibility in multiple languages.
- Reduced average user query resolution time by **30%** in prototype testing.

Technical Skills

Programming: C++, Python, Java
Web Development: HTML, CSS, JavaScript, React.js, Node.js, MySQL
Machine Learning & AI: NumPy, pandas, scikit-learn, Keras, Matplotlib, OpenCV, NLP
Tools / Platforms: Git/GitHub, VS Code, Jupyter, Google Colab, Linux
Databases / Other: MongoDB, Stripe Payment Gateway
Core CS Concepts: Object-Oriented Programming, DBMS, Operating Systems, Data Structures & Algorithms

Certifications

AWS Builders Online Series — AWS
Data Science for Engineers ELITE Certificate — NPTEL (IIT Madras)
Cybersecurity Analyst Job Simulation — Tata, Forage
GenAI Powered Data Analytics Job Simulation — Accenture, Forage
Tata Data Visualization: Empowering Business with Effective Insights — Forage
Internship Common Aptitude Test (LCAT) — LabMentix
Exploratory Data Analysis for Machine Learning — Coursera (IBM)