

Ritu Raj

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Summary

Passionate Full-Stack and Backend Developer specializing in Python and AI/ML. Experienced in building production-ready web applications, REST APIs, and deploying scalable backend systems. Skilled in Python, FastAPI, Flask, SQL/NoSQL databases, and cloud deployments. Strong problem-solving skills with a focus on building real-world products.

Education

B.Tech in Computer Science (Data Science) Rashtrakavi Ramdhari Singh Dinkar College of Engineering Begusarai, Bihar	2024 – 2027 (Present*) CGPA: 8.6/10
Diploma in Computer Science and Engineering Government Polytechnic Barauni, Bihar	2021 – 2024 CGPA: 8.7/10

Technical Skills

Programming Languages:	Python, JavaScript, TypeScript, GoLang
Framework/Libraries:	FastAPI, Flask, Django, Node.js, React, React Native
Databases/Technology:	PostgreSQL, MongoDB, Redis, RabbitMQ, Kafka
DevOps/Cloud:	Docker, Linux, GIT, GitHub Actions, Kubernetes, AWS
AI/ML:	Machine Learning, NLP, PyTorch, TensorFlow

Projects

- Chatbot-as-a-Service** [GitHub](#)
- Built a scalable AI-powered chatbot platform using **FastAPI, NLP models, and AWS deployment**.
 - Achieved **76% intent classification accuracy** using trained NLP pipeline.
 - Reduced inference cost by **30%** through response caching and optimized API calls.
 - Designed REST APIs handling **500+ requests/day** with average latency below **200ms**.
- LeetCode Clone (Full-Stack Coding Platform)** [GitHub](#)
- Developed full-stack coding platform using **React, FastAPI, PostgreSQL**.
 - Implemented secure user authentication and problem evaluation engine.
 - Supported **100+ coding problems** with real-time submission tracking.
 - Containerized application using **Docker** and implemented CI/CD via GitHub Actions.
- HealthPulse – ML Health Prediction System** [GitHub](#)
- Built ML models for **Diabetes and Heart Disease prediction** using Python and Scikit-Learn.
 - Achieved **82% accuracy (Diabetes)** and **79% accuracy (Heart Disease)** on test dataset.
 - Designed Flask-based backend with MongoDB integration.
 - Deployed interactive dashboard enabling real-time predictions for users.

Internships / Experience

Fullstack Developer — 4 Week Ploytropic services patna	June 2025
Python Developer Intern — 3 month build real world project	December 2024

Achievements & Certifications

- Smart India Hackathon'25 Finalist: Build Language agnostic chatbot for govt of Rajasthan.
- CyberHackathone Finalist: National level hackathone build MSI Dashboard & FIR Management System.
- AWS certified Solutions Architect certification & Multiple Online Courses in Fullstack Development.