Rajdeep Dutta

Project-Focused Software Engineer

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Profile

Project-driven Software Engineer with hands-on experience in designing and building real-world applications using Python, Java, and full-stack technologies. Skilled in **system design**, REST APIs, and deep learning pipelines, with a published IEEE paper in medical OCR. Focused on practical problem-solving and delivering maintainable, production-ready solutions.

Education

KIIT University
B.Tech
09/2022 — 05/2026 | Bhubaneswar, Odisha
- 6.34/10
- No active backlogs

Ramakrishna Mission Vidyabhavan
Secondary
01/2012 — 01/2020 | West Midnapore , West Bengal
Percentage:81%

Vidyasagar Vidyapith
High Secondary
05/2020 — 02/2022 | West Midnapur, West Bengal
Percentage:84%

Skills

Programming Skills:
Python, Java

Frontend:
HTML, CSS, JavaScript,React.js

Backend & Web Frameworks:
Flask, Django, REST APIs

AI/ML Frameworks
TensorFlow, Keras, NumPy, OpenCV, Hugging Face

Database:
SQL (Joins, Subqueries, Optimization),MySQL, MongoDB

Software Development Methodologies:
Agile

Tools & Platform
GitHub, CI/CD pipeline ,JWT, Google Colab,VS Code

Soft Skills:
Analytical thinking, Time management, Process Documentation, Teamwork

Training & Certification

Python Full Stack Developer — EduSkills (AICTE) | 2024 ⧉
- Gained hands-on experience in full-stack development using Python libraries.

Generative AI: Prompt Engineering Basics — Coursera (IBM Authorized) | 2025 ⧉
- Covers fundamentals of prompt design and optimization in Generative AI.

AWS Academy Graduate — Cloud Foundations | 2025 ⧉
- Covers AWS core services, cloud security, and architecture fundamentals.

Saviynt Identity Security for AI Age — Saviynt Certified | 2025 ⧉

Cisco Introduction to Cybersecurity (2026) ⧉
- Covered cyber threat fundamentals and organizational security defenses.

Explore and Analyze Data with Python — Microsoft | 2026 ⧉
- Covered data manipulation, visualization, and analysis using Python libraries.

Projects

Healthbot ⧉
AI-Health Assistant
07/2025 — 08/2025
- Built a full-stack application using **React.js, Flask, and MongoDB** for symptom analysis and health guidance.
- Designed and implemented **RESTful APIs** to support dynamic user interactions.
- Integrated **CI/CD pipelines using GitHub Actions**, ensuring automated testing and deployment.
- Followed Agile practices with emphasis on documentation and iterative delivery.

Employee-Management-System ⧉
A Secure Web Platform for HR and Employee Operations
08/2025 — 10/2025
- Developed a secure **Django-based web application** with MySQL for HR and employee operations.
- Implemented session-based authentication and role-controlled access.
- Designed scalable CRUD APIs with focus on maintainability and clean architecture.

Library Management System — Java ⧉
Manage books system
05/2025 — 06/2025
- Built an **OOP-based Java console application** for managing books and transactions.
- Used Java Collections for in-memory data handling and search optimization.

Publications

A Deep Learning-Driven OCR Framework for Medical Prescription Analysis Using Hybrid Preprocessing and Multi-Model Architecture ⧉
Institute of Electrical and Electronics Engineers(IEEE)
06/09/2025
- Designed a hybrid OCR pipeline combining **CNN—BiLSTM and Vision Transformer architectures**.
- Developed custom preprocessing techniques for noisy and handwritten prescriptions.
- Achieved **91% accuracy** on a real-world medical dataset, validating applicability in healthcare digitization.

Languages

- English (Professional), Hindi (Professional), Bengali (Native)