Devatva Rachit

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Profile

Final-year Computer Science Engineering student with a strong foundation in software development and applied machine learning. Experienced in building scalable backend systems, deploying intelligent solutions, and working with cloud-based infrastructures.

- **Programming Languages:** C, Java, Python, SQL
- **Backend Development:** Spring Framework, Spring Boot, REST APIs, JDBC, Hibernate
- **Data Science Libraries:** NumPy, Pandas, Matplotlib, Seaborn
- **Machine Learning:** Scikit-learn, TensorFlow, Supervised learning, Deep learning, Model tuning
- **Tools and Methodologies:** Jupyter Notebook, DBMS, OOP, Agile, Scrum, Git
- **Problem Solving:** Solved 400+ data structure and algorithm problems on **LeetCode**, enhancing algorithmic thinking and coding efficiency

Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	KIIT University, Bhubaneswar	9.05	2026
12th	City Montessori School (ISC), Lucknow	93.5	2021
10th	City Montessori School (ICSE), Lucknow	93.67	2019

Certifications

- **AI & ML Bootcamp – Udemy** 2024
- **IBM Data Science Certification** 2025
- **Red Hat Enterprise Linux Beginner (RHEL124)** 2025
- **AWS Cloud Computing and Solution Architect Beginner** 2025

Projects

Credit Card Fraud Detection | *Python, Pandas, Numpy, Scikit-learn, Jupyter Notebook*

- Developed a fraud detection system using **Logistic Regression, Decision Tree, KNN, SVM, Random Forest, and XGBoost** on a dataset of **284,807 transactions**.
- Handled extreme class imbalance (**<0.2% fraud cases**) using **undersampling**, enhancing model fairness and recall.
- Achieved **96.23% test accuracy** with **RandomForestClassifier**, with **ROC-AUC > 0.95** across top models.

School Management REST API | *Java, Spring Boot, PostgreSQL, Spring Data JPA, Postman*

- Developed a RESTful backend system for managing school and student data using **Spring Boot** and **PostgreSQL**.
- Implemented modular architecture with **Controller-Service-Repository layers** and integrated **Spring Data JPA** for robust CRUD operations.
- Designed and tested **15+ REST API endpoints** with Postman, following REST conventions to ensure scalability and frontend compatibility.

MNIST Digit Classification using CNN | *Python, TensorFlow/Keras, NumPy, Matplotlib*

- Built a deep learning model for handwritten digit classification on the MNIST dataset with **96.80% test accuracy**.
- Trained on 60,000 images and validated on 10,000 test samples using CNN architecture.
- Applied techniques like **dropout**, **batch normalization**, and **ReLU activations** to improve performance and prevent overfitting.

CareFlow – Healthcare Management API | *Java, Spring Boot, PostgreSQL, Spring Data JPA, Docker*

- Developed a RESTful backend managing **500+ patient records** with **Controller-Service-Repository architecture** and **Spring Data JPA**.
- Containerized with **Docker** and implemented **unit (100% coverage) and integration testing**, ensuring robust, production-ready APIs.
- Designed **15+ scalable REST API endpoints** following best practices, enabling seamless integration with frontend applications and supporting future feature expansion.

Achievements

- Ranked in the top 25% globally on **LeetCode**, with 400+ problems solved across algorithms, data structures, and system design.
- Contributed to open-source ML projects, refining algorithms and performance.