

Aditya Raj

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Education

Noida Institute of Engineering and Technology - Computer Science and Engineering in Artificial Intelligence Nov 2022 - Present

- CGPA: 8.36/10.0

Experience

Android Developer Intern - EduSkills(AICTE) Apr 2024 – Jun 2024

- Spearheaded Android feature development in Kotlin, boosting app performance by 20 percent through advanced debugging and optimization techniques.
- Collaborated with UI/UX designers to deliver responsive, user-friendly interfaces using Jetpack Compose.
- Streamlined UI workflows and integrated REST APIs, working cross-functionally with multiple teams to enhance overall app experience.

IDEA Lab Intern - Noida Institute of Engineering and Technology Aug 2024 – Sept 2024

- Participated in AI + IoT research, prototyping smart environment solutions and applying insights from 2 conferences and 3 webinars.
- Applied new knowledge to a research-based AI project, contributing to innovative solution design.
- Conducted literature reviews and data exploration to support risk-aware, real-world implementations.

Projects

Advanced Taxi Fare Prediction Model Jan 2024 – May 2024

- Developed automated testing scripts for regression accuracy and edge-case validation.
- Built and deployed a real-time fare prediction system using Flask, XGBoost, and Random Forest.
- Deployed the model using Flask and integrated it with a user-friendly web interface for real-time fare predictions.

Speech emotion recognition Aug 2024 - Sep 2024

- Utilized Librosa, PyAudio, and extracted MFCC, Chroma, and Zero-Crossing Rate for analysis.
- Trained and evaluated models using algorithms like SVM and MLPClassifier to classify emotions such as happy, sad, angry, and neutral.
- Achieved over 85 percent accuracy on the RAVDESS dataset and visualized performance using confusion matrices and classification reports.

Stock Investment Platform Jan 2025 - Present

- Full-stack platform with Spring Boot (backend), MongoDB (DB), React.js (frontend).
- Integrated JWT-based authentication and Jest unit tests for secure, reliable functionality.
- Integrated third-party financial APIs to fetch live market data and historical trends for informed investment decisions.

Skills

Programming Languages: Java, C, Python, SQL, JavaScript, HTML, CSS , Kotlin

Technologies and Frameworks: Spring Boot, MongoDB, React.js, Android Studio, OpenCV , Machine Learning, Data Structures and Algorithms, Software Development, Flask, Git, GitHub, VS Code, IntelliJ, REST APIs, Unit Testing, Debugging

Achievements: Solved 100+ LeetCode problems focusing on binary search, dynamic programming, graphs, and system design patterns. Understanding of OOP, OS, DBMS, Networks.