# Aditya Vinay Raj Kamisetti

Student

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## PROFILE

Aspiring Full Stack Developer with expertise in Java, React, TypeScript and web development. Strong interest in Java programming and software development, with a focus on building efficient, scalable, and user-friendly applications.

## EDUCATION

**KL University**                                                                                                    2023 – Present

## SKILLS

- Java Programming
- Python
- React.js
- Typescript
- C Programming
- SQL
- Html/Css

## LANGUAGES

- English
- German
- Telugu
- Hindi

## PROJECTS

**ATM Interface**
Created a functional ATM interface using Java and MySQL that supports user login, PIN validation, balance inquiry, deposits, withdrawals, and transaction history. This project helped simulate real banking operations and improved my skills in object-oriented programming, database connectivity (JDBC), and user input validation in Java.

**Finance Management and Banking Application**
Currently developing a full-stack finance and banking web application using React.js for the frontend, Spring Boot for the backend, and MySQL for the database. The app includes features such as user registration/login, transaction management, spending history, and financial tracking. This project has significantly improved my skills in full stack development, API handling, and secure user authentication.

**Hand & Facial Gesture–Controlled Intelligent Car Driving System**
Developed a real-time computer vision–based car driving system using facial and hand gestures. Facial head tilt is used for steering control, while single-hand gestures control speed, braking, and reverse movement. The system uses webcam input with OpenCV and MediaPipe for accurate landmark detection and gesture recognition, demonstrating hands-free human–computer interaction and intelligent control systems.

**Explainable Vision Image Processing Application**

Developed an explainable computer vision application that applies various image processing operations while visually explaining each transformation step. Built as a full-stack web application with a TypeScript-based frontend for interactive visualization and parameter control. The project focuses on transparency in vision algorithms and improves understanding of how image processing techniques affect visual outputs.

**Smart Parking System**

Developed a smart parking system using Arduino, IR sensors, and breadboard connections to automate vehicle detection and parking slot management. The system could identify available slots and guide vehicles accordingly, reducing manual intervention. This project enhanced my knowledge of embedded systems, sensor integration, and real-world IoT applications.

**Sentiment Analysis**

Developed a machine learning model using Python libraries like NLTK and Scikit-learn to analyze and classify text data (e.g., reviews or tweets) as positive, negative, or neutral. The project involved data preprocessing, feature extraction, and training classifiers. It improved my understanding of NLP, supervised learning, and real-world data analysis.

**Tic Tac Toe Game**

Designed and implemented a console-based Tic Tac Toe game in Java with proper win-check logic, player switching, and a user-friendly interface. Focused on developing clean logic, improving user interaction, and handling edge cases to ensure a smooth game flow. This strengthened my Java fundamentals and problem-solving approach.

## CERTIFICATES

- Cultivating AI and Machine Learning
- Spring MVC, Spring Boot and Rest Controllers
- Neural Networks and Deep Learning
- Java Servlet Pages
- Java Database Connectivity Introduction
- React Basics
- Introduction to Computer Vision