

# JAYABALAJEE S K

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| No: A-6 Police Quarters, Kanchipuram High Road, Natham, Chengalpattu – 603002 |

## Summary

Highly motivated and detail-oriented Application Developer with expertise in **Core Java, Python, SQL, and front-end technologies like HTML, CSS, and JavaScript**. Proficient in **backend development** using frameworks such as JDBC, Spring Boot, and Spring MVC. Experienced in Selenium testing, with foundational knowledge of React.js and skills in UI/UX design (Figma) and video editing (DaVinci Resolve). A recent **MCA graduate**, ready to contribute across the full stack by developing scalable applications, enhancing interfaces, and ensuring robust testing and quality assurance.

## Education

**B. S. Abdur Rahman Crescent**

**Institute of Science and Technology**

Master of Computer Applications (MCA) with CGPA 9.08

**2022 - 2024**

*Chennai, Tamil Nadu*

**Agurchand Manmull Jain College**

(Affiliated to the “University of Madras”)

Bachelor of Computer Applications (BCA) with CGPA 8.8

**2019 – 2022**

*Chennai, Tamil Nadu*

## Relevant Coursework

- Java, Spring Framework and Spring Boot
- Java and Python Training
- Selenium with Java
- The Data Visualization Course
- Data Analysis with Python
- DaVinci Resolve

## Projects

**Crime Type and Occurrence Prediction Using Machine Learning**

**MCA - Final Year Project**

Jan 2024 – June 2024

Role: Lead Developer

- Utilized Decision Tree and Bagging Classifiers to predict and categorize 20 types of crimes in Portland, Oregon.
- Worked with a dataset of 505,063 records from 2015 to 2023.
- Achieved 98% accuracy on the training set and 95% accuracy on the test set for both classifiers.
- Demonstrated robustness with minimal overfitting.
- Provided valuable insights for law enforcement, aiding in strategic planning and resource allocation.

**Automated Attendance System Based on Face Recognition**

**MCA - Mini Project**

Aug 2023 – Dec 2023

Role: Lead Developer

- Developed an attendance tracking system using the LBPH algorithm and Haarcascade face detection.
- Designed and coded face recognition algorithms.
- Integrated the algorithms into the attendance system to ensure high accuracy.
- Ensured reliable performance with minimal errors.
- Streamlined the attendance process, significantly reducing manual effort.

## Technical Skills

**Languages:** Java, Python, Dart, HTML, CSS, JavaScript, SQL.

**Developer Tools:** Docker, Figma, RESTful APIs, Git, Maven, Video Editing.

**Technologies/Frameworks:** Spring Boot, Flutter, Selenium, Junit, Machine Learning & Data Science.