# VIJAY KUMAR B S

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## PROFESSIONAL SUMMARY

Software Engineering graduate pursuing MCA with specialization in AI, ML, and Data Science. Strong foundation in software development, data structures, and problem-solving. Experienced in building scalable applications, backend services, dashboards, and data-driven systems using Python, Java, and SQL. Passionate about writing clean, efficient code and contributing to end-to-end software development in collaborative engineering environments.

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, SQL
**Development:** Object-Oriented Programming (OOP), Basic Data Structures & Algorithms
**Backend Development:** Python, REST APIs, Flask
**Frontend (Basic):** HTML, CSS, JavaScript
**Databases:** MySQL, MongoDB
**Tools:** Git, GitHub, VS Code

## PROFESSIONAL EXPERIENCE

Python Developer Intern | Saiket Systems April 2024, Bengaluru, india

Developed and deployed Python-based backend applications as part of a Python Developer internship, focusing on automation, data processing, and REST API integration to support real-time workflows. Implemented web scraping solutions using BeautifulSoup to extract and process structured data, and built file-handling and text-processing pipelines for efficient data analysis. Integrated external APIs for real-time currency conversion and data retrieval, ensuring accurate and reliable outputs. Optimized and debugged code across multiple modules, improving performance, reliability, and maintainability by following clean coding practices.

## PROJECT

**Cybersecurity Dashboard for Web Threats | Python, REST APIs, Data Visualization | 2025**

Designed a **Python-based desktop UI cybersecurity dashboard** to scan target websites and detect security vulnerabilities using the **OWASP ZAP API**. Implemented backend logic to analyze scan results, generate alerts, and collect vulnerability data for quick threat identification. Developed interactive dashboards and reports within the Python UI to visualize security findings clearly, enabling users to understand and respond to threats effectively.

**Machine Learning on Employee Attrition| Python, Machine Learning, Data Analysis| 2024**

Developed a machine learning–based employee attrition prediction system using Python to analyze workforce data and identify key factors contributing to employee turnover. Implemented classification algorithms including Logistic Regression, Decision Trees, and Random Forest, and evaluated model performance using cross-validation and test datasets. Performed data preprocessing, feature selection, and result interpretation to generate actionable insights supporting data-driven employee retention strategies.

**Smart QR Code–Based Attendance Management System | Python, Flask, Machine Learning, SQLite | 2025**

Developed a web-based QR code attendance management system using Python and Flask to automate student attendance with secure time-based validation. Implemented machine learning models including Isolation Forest, K-Means, and Logistic Regression to detect anomalies, identify proxy attendance, and predict absenteeism. Integrated SQLite for data management, CSV-based analytics, PDF report generation, and interactive dashboards to enable accurate, data-driven attendance monitoring.

## CERTIFICATIONS

- Python Development Intern Certification – Saiket Systems
- Java Programming Certification – Karnataka Infotech, Bengaluru
- Microsoft Tools Certification – Karnataka Infotech, Bengaluru

## EDUCATION

Master of Computer Application - 2024-2026 | Pursuing | Current CGPA: 8.25

Bachelor of Computer Application - 2021-2024 | CGPA: 7.40

Pre-University Course - 2019-2021 | Percentage: 71.00 %

Secondary School Leaving Certificate – 2019 | Percentage: 73.92 %