

Kavyashree K

Bangalore, Karnataka
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SUMMARY

M.Tech Integrated Software Engineering student with strong focus on **Java backend and Full Stack Development**, experienced in building scalable, secure applications using **Spring Boot, MERN stack, REST APIs, and relational databases**. Solid foundation in **data structures, OOP, and software engineering principles**, with proven ability to develop real-time systems and production-ready applications. Also familiar with applying machine learning techniques to practical use cases.

EDUCATION

Vellore Institute of Technology (VIT) Vellore, India
M.Tech Integrated Software Engineering; **CGPA: 8.01** 2027

Keshav Smarak Junior College Hyderabad, India
Intermediate (MPC) 2022

Oxford Grammar High School Hyderabad, India
Secondary School Education (CBSE) 2020

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL
Web Technologies: MERN Stack (MongoDB, Express, React, Node.js), HTML, CSS, REST APIs
Machine Learning & AI: TensorFlow, Keras, Scikit-learn, Pandas, Deep Learning (CNN), Constraint Satisfaction (CSP)
Big Data & Tools: Hadoop, GitHub, VS Code
Core Concepts: Data Structures & Algorithms, DBMS, OOP, Software Engineering

PROJECTS

EventPulse: Real-Time Event Management Dashboard | *Spring Boot, WebSocket, Thymeleaf* [GitHub](#)

- Engineered a real-time event dashboard using Spring WebSocket and STOMP, enabling instant bi-directional updates without page reloads.
- Implemented Spring Security with Role-Based Access Control (RBAC) to secure administrative endpoints and enforce data integrity.
- Integrated JavaMail API to automate speaker RSVPs and email notifications.
- Built backend services using Spring Boot and MySQL ensuring scalable event scheduling and reliable persistence.

Heart Disease Risk Prediction System | *Python, Machine Learning, Streamlit, Scikit-Learn, XG-Boost* [GitHub](#)

- Developed a machine learning-based prediction system to assess heart disease risk using clinical features.
- Implemented and evaluated XGBoost, Random Forest, and Logistic Regression models.
- Achieved 90%+ accuracy with XGBoost improving prediction reliability.
- Built an interactive Streamlit web application enabling real-time risk prediction.
- Designed a complete ML pipeline including preprocessing, training, and deployment-ready serialization.

SOFT SKILLS

Problem Solving | Communication | Team Collaboration | Leadership | Time Management | Adaptability | Critical Thinking

LEADERSHIP & ACHIEVEMENTS

Vice Chairperson & Editorial Head, Kannada Literary Association, VIT (2023–Present): Led a team to organize university-wide cultural events and managed editorial content.