

Omkar Veeranna Kurane

Computer Science Undergraduate — Java Development — AI/ML — Database Management — Data Structures & Algorithms

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Professional Summary

Computer Science undergraduate with strong expertise in **Core Java**, **Object-Oriented Programming (OOP)**, and **Data Structures & Algorithms (DSA)**. Proven ability to develop innovative software solutions leveraging **Artificial Intelligence (AI)** to address real-world challenges in healthcare, education, and automation. Possess excellent analytical and problem-solving skills with a commitment to delivering efficient, technology-driven solutions.

Technical Skills

- **Programming Languages:** Java, Python, SQL, JavaScript, HTML, CSS
- **Core Concepts:** JVM Architecture, OOP Principles, Multithreading, Collections Framework, Java 8 Features, Exception Handling, JDBC, DBMS, Data Structures & Algorithms, Generics, Memory Management, REST APIs, Microservices Architecture
- **Frameworks & Libraries:** Spring Boot, Hibernate, React, Node.js, Next.js, Express.js, Flask
- **Tools & Platforms:** IntelliJ IDEA, VS Code, MySQL, MongoDB, Anaconda, L^AT_EX, IBM Cloud, Git, GitHub
- **AI Tools & Technologies:** LangChain, RAG (Retrieval-Augmented Generation), Cursor AI, Kiro AI, Agentic AI, Websim.AI

Projects

1. Data Visualization Tool Through ChatBot (Solo Hackathon) *April 2025–July 2025*

- Developed an AI-powered chatbot that generates data visualizations from natural language prompts with **85% accuracy**
- Engineered system to extract key values and generate bar, pie, scatter, and mixed charts
- Implemented support for user-uploaded datasets with customizable chart options
- Ensured data security through **isolated** user accounts and session management
- Provided **interactive insights** to facilitate rapid data-driven decision making
- **Technologies:** Node.js, JavaScript, HTML, CSS, Chart.js, D3.js

2. AI Health Assistant (Group Hackathon)

July 2025

- Created an AI assistant for rural healthcare to provide preliminary medical guidance where doctors are unavailable (**90% accuracy**)
- Analyzed symptoms and suggested safe home remedies aligned with WHO guidelines
- Implemented critical case detection to escalate emergencies to medical professionals
- Ensured data privacy through secure, **isolated** user accounts
- Integrated multilingual voice input/output and an intuitive web interface
- **Technologies:** Python, Flask, AI/ML APIs, Text-to-Speech, Speech-to-Text, NLP

3. LibSync – Smart Library Automation System (Final Year Project)

2025

- Developed a mobile application to automate library operations and enhance user experience
- Designed a **server-centric** architecture for efficient data management and scalability
- Implemented **AI-driven search** functionality and personalized book recommendations
- Integrated real-time inventory tracking and automated overdue **notification system**
- Created an intuitive UI/UX for seamless mobile interaction
- Implemented secure user authentication and data protection measures
- **Technologies:** React.js, React Native, Node.js, Express.js, MongoDB

Education

Bachelor of Engineering (B.E.) in Computer Science & Engineering *2022–2026*
Maratha Mandal's Engineering College, Belagavi (Visvesvaraya Technological University)
CGPA: 8.64/10.0 (through 6th semester)

Pre-University Course (PUC) – Science (PCM) *2020–2022*
Sanjay Ghodawat Academy, Belagavi
Percentage: 82.83%

Secondary School Leaving Certificate (SSLC) *Completed: 2020*
Maratha Mandal English Medium School, Belagavi
Percentage: 88.16%

Extracurricular Activities & Achievements

- Participated in 3 zonal-level and **1 national-level** hackathon competitions
- Competed in FKCCI Marthan Business Plan Competition, Bengaluru
- Active participant in speech and debate competitions to enhance public speaking skills
- Pitched at EUREKA, a national-level startup competition (**E-Cell, IIT Bombay**)
- Winner of multiple inter-college technical paper presentation competitions
- Secured 1st place in "Best of Waste" competition during first year of engineering
- Awarded "Best Student" during SSLC (2019–2020)
- Served as **Communication** Minister during school tenure

Strengths & Soft Skills

- Adaptability and Rapid Learning
- Leadership and Team Collaboration
- Effective Communication and Negotiation
- Analytical Thinking and Problem Solving
- Project Management and Time Management

Certifications

- Core Java – ScholarHat *January 2025–June 2025*
- Linux Workshop – upGrad @ MMEC *August 2024*
- Web Development – upGrad @ MMEC *June 2024*
- SQL Database Management – LetsUpgrade *March 2024*
- Hack to Future '24 – KLS Gogte Institute of Technology *June 2024*
- Hack to Intern – TechVritti — VTU *November 2024*
- Google AI Certification – Google *2025*
- Journey to IBM Cloud – IBM SkillsBuild @ MMEC *August 2025*
- RAG with LangChain – IBM SkillsBuild *August 2025*