

AYUSH SAHU

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Summary

A **Software Development Engineer** adept at integrating **AI/ML** and **NLP** for efficient **automation** (driving 40% search efficiency and 30% information retrieval), with a strong foundation in building **scalable applications** using the **MERN stack** (achieving 30% efficiency and 25% latency reduction).

Education

University of Mumbai

July 2022 – June 2026

Bachelor of Engineering in Computer Science

CGPA - 8.55 / 10

Coursework : Operating System, Computer Networks, DBMS, Object Oriented Programming

Experience

Aspiring Media Tech | Certificate

June 2024 – December 2024

Web Developer Intern

Vasai, Maharashtra

- Directed the end-to-end development process for a robust full-stack campaign tracking system; ensured seamless connectivity between client-side operations and server-related tasks, improving data flow efficiency by over 30%.
- AI-Driven Enhancements:** Integrated AI-based automation and predictive analytics, enhancing campaign performance and increasing search efficiency by 40% through intelligent metadata enrichment.
- Performance Optimization:** Implemented advanced optimization techniques, boosting system scalability by 35% and reducing processing latency by 25%, ensuring a more efficient and reliable user experience.
- Tech Stack:** HTML, CSS, JavaScript, Bootstrap, PHP, and RESTful APIs.

Technical Skills

Languages: Java, JavaScript, Python, C/C++, SQL (Postgre-SQL, MySQL), HTML, XML, CSS

Technologies Frameworks: AIML, NLP, DL, React, jQuery, Node.js, Flask, Express.js, Bootstrap

API Tools: Git, Github, RESTful APIs, Postman

Cloud and Databases: AWS, Firebase, MongoDB, SQL Server

Others: Data Structures and Algorithms(DSA), SDLC, Deep Learning, Agile (Scrum/Kanban), Debugging, Technical documentation, Code Reviews, Automation

Projects

Arrhythmia Detection using 1D CNN | *Python, TensorFlow/Keras, ECG Data Preprocessing* | GitHub

Jul 2025

- Developed a 1D Convolutional Neural Network (CNN) model for real-time arrhythmia detection, achieving **94.5% accuracy** and **95% sensitivity** on ECG datasets.
- Preprocessed and normalized large ECG datasets (e.g., MIT-BIH Arrhythmia Database) to enhance model training stability and performance, reducing data noise by an estimated 20%.
- Implemented custom data augmentation techniques, increasing the effective dataset size by 5x, which significantly improved model generalization and robustness.
- Optimized model architecture and hyper-parameters, resulting in a **30% reduction in inference time**, making the model suitable for edge deployment.

Ryde - Dynamic Ride Booking Platform | *Node.js, Express.js, MongoDB, React.js, JWT* | GitHub

Dec 2024

- Launched full-stack ride-hailing system, facilitating **500,000+ rides in 6 months** with a **4.8/5 average customer rating**. Driver allocation optimized, reducing average wait times by **15%**.
- Dynamic booking system handles **10,000+ requests/hour** at peak times with **99.9% uptime**. Real-time fare estimation maintains **<5% error margin**.
- Developed robust **RESTful APIs** (Node.js, Express.js) handling **2M+ daily requests** and supporting **500 concurrent users** with **<200ms latency**, secured with JWT.

Extracurricular

- Solved 400+ questions on LeetCode and 150+ on GFG, demonstrating strong problem-solving skills.
- Served as a core member of NSS (National Service Scheme), VCET, contributing to multiple social impact initiatives.