

SEJAL SINHA

Bangalore, Karnataka

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🔗 [sejalsinha11](https://github.com/sejalsinha11)

EDUCATION

BMS College Of Engineering

Bachelor of Engineering in Information Science

- CGPA: 9.55/10

Nov 2022 – Aug 2026

Bangalore, India

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Machine Learning
- Database Management System (DBMS)
- OOPS Concept
- Operating Systems
- Web Development

WORK EXPERIENCE

R&D Intern – Samsung PRISM

Multi-Agent Conversational AI Research

April 2025 – Present

Remote / Bangalore

- Conducting research on scalable communication protocols for multi-agent systems, focusing on task automation, agent collaboration, and shared context modeling.
- Collaborating with Samsung PRISM mentors to design and evaluate a modular framework for agent coordination and LLM orchestration using performance metrics like latency and output reliability.

PROJECTS

Multilingual Real-time Emotion Detection from Speech 🔗 |

March 2025

- Developed a Real-Time Emotion Detection System that analyzes human speech to identify emotions using AI and NLP models.
- Uses Hugging Face's Wav2Vec2 for speech-to-text conversion and an NLP model (DistilBERT/RoBERTa) for emotion classification.
- Designed an interactive React.js frontend with real-time audio recording and visualization and backend in Node.js and Flask api for predicting and handling audio files.

Diabetes Prediction 🔗 | Python, Scikit-learn, Pandas, React.js

December 2024

- Engineered ML models using SVM, Random Forest Classifier, and Logistic Regression, and ensembled them together based on a voting classifier.
- Optimized data processing, feature engineering, and outlier handling.

TECHNICAL SKILLS

Languages: C++, Python, Java, C, JavaScript

Web Development:

- **Frontend:** HTML, CSS, React.js, Next.js
- **Backend:** Node.js, Express.js, Mongoose, REST API

Databases: SQL (Relational), MongoDB (NoSQL)

Other Tools: VS Code, GitHub, Google Colab, Jira, Jupyter Notebook, Postman, PyCharm

CERTIFICATIONS

Data Structure in C++: Coding Ninjas, August 2024

The Complete 2024 Web Development Bootcamp: Udemy, September 2024

Advanced Selenium Training : Infosys Springboard, December 2024

Extracurricular Activities

U&I Organisation

July 2024 – March 2025 — Bangalore

Volunteer: Taught underprivileged kids Mathematics and English every Sunday with fun learning and life skills.

Chess

Mar 2025 – Aug 2026 — Bangalore

College Captain: Led the chess team in intercollegiate tournaments, strategizing gameplay and training members.

Class Representative

May 2024 – August 2026 — Bangalore

CR: Representing the class, coordinating with faculty and students, and manage class activities.