

Vaishali S

Aspiring Computer Science Engineer

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Summary

I am an aspiring Computer Science engineer with a solid academic background from Muthayammal College of Engineering and hands-on experience in innovative projects that leverage cutting-edge technology like blockchain and machine learning. I have developed solutions that improve efficiency and security, showcasing my technical skills in programming languages, frameworks, and tools. I am passionate about advancing my knowledge in software development and eager to contribute to impactful projects.

Key Achievements

- Designed and deployed mobile air quality monitoring system with real-time data collection and analysis.
- Enabled citizen participation through mobile apps for crowdsourced environmental data.
- Built a deep learning-based speech recognition model robust to noise, accents, and varied speaking styles.
- Validated models using advanced metrics and forecasting, with applications in health, AI assistants, and smart cities.

Education

B.E. in Computer Science Engineering 2022 – 2026	Muthayammal College of Engineering, Rasipuram CGPA: 7.98
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HSC 2019 – 2020	Saraswathi Matriculation Higher Secondary School, Tamil Nadu Percentage: 91%
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SSLC 2021 – 2022	Saraswathi Matriculation Higher Secondary School, Tamil Nadu Percentage: 76%
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Skills

Python, Java, JavaScript, Data Structures, Algorithms, HTML, CSS .

Projects

AQI Analysis

Developed a predictive model for air quality index (AQI) using machine learning algorithms and data analysis techniques.

- Applied Python, NumPy, and data manipulation techniques to analyze large datasets.
- Built forecasting models to predict air quality variations and pollution hotspots.

Speech Recognition System

Developed a real-time speech recognition system using deep learning.

- Implemented CNN/RNN-based models for accurate speech-to-text conversion.
- Enhanced robustness for noisy environments and diverse accents.

Courses

- Acquiring knowledge on **Java Full Stack Development** at Intermediate level.
- Acquiring knowledge on **Data Analyst** at Intermediate level.
- Acquiring knowledge on **Solution Architecture Job Simulation** at Intermediate level.

Interests

Aspiring to become a **Full Stack Developer**.