

DIVYANK JAIN SINGHVI

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🐙 <https://github.com/divyank-jain-singhvi>

FULL STACK DEVELOPER

Education

Dayananda Sagar University, Bangalore

Expected July 2025

Pursuing Bachelor of Technology in Computer Science and Engineering

GPA: 8.46/10

Technical Skills

Languages: C, C++, Python, JavaScript, Java, Assembly Language, Arduino, Solidity

Web Technologies: HTML5/CSS3, SQL/MySQL, Firebase, Bootstrap, Tailwind CSS, WordPress, Reactjs/React, MongoDB, NodeJs

Relevant Subjects: Object Oriented Programming using Java, Operating System, Database Management System, Machine Learning, Python Frame Work as Nextpy, Flask & Django Rest API, Deep learning, Machine Learning, Block Chain Technology(Web3)

Others : Data Structures and Algorithms, Git/GitHub/Git Bash, Docker

Experience

MLE Intern at Clarice System

July 2023 - August 2023

* Working as 1-month Machine Learning engineer Software Developer Intern at Clarice System.

Projects

Audio Authenticate - Machine Learning Algorithm | *Git*

July 2023 - August 2023

- * **Security System Development:** Implemented a user security system based on unique vocal characteristics, extracted using 13 MFCC features
- * **UI and Model Training:** Designed an efficient GUI and trained SVM and SVT models with 40% accuracy.
- * **Verification:** Achieved a 40% accuracy rate in user identity verification, enhancing system security by 25%

Audio Nullifier - Background Noise Removal | *Git*

September 2023 - December 2023

- * **Audio Processing and Wave Library:** Noise reduction of user audio and eliminating non-living background noise with sample rate 44100
- * **Audio Analysis:** Capable of segmenting audio in 1 sec each, identifying maxima of audio frames (highest frequency count around 30000Hz), and performing detailed analysis
- * **Frequency Analysis & Enhancement:** Expert in calculating IQR range for threshold determination (mostly IQR value around 8000Hz), retaining significant frequencies, and enhancing audio quality
- * **page performance:** Performance- 97%, Accessibility- 90%, Best Practices- 100%, SEO- 89%

SIC/XE object code generation algorithm - Full Stack Development | *Git*

March 2024 - April 2024

- * **Full-Stack Development** Built a full-stack application using Django Rest API and React for SIC/XE object code generation.
- * **Object Code Generation:** Algorithms for accurate SIC/XE object code generation with 59 opcode & 128 mnemonics
- * **API Design and Integration:** Created and integrated RESTful APIs with Django Rest Framework for seamless backend communication and MySQL data storage.
- * **Responsive UI Development:** Developed an interactive and user-friendly compiler GUI using React.

Smart Mining Helmet - IOT project | *Git*

February 2024 - March 2024

- * **Smart Helmet Integration:** Developed a helmet with Neo-6M GPS, DHT11, and MQ-2 sensors for real-time monitoring.
- * **Cloud Data Storage:** cloud-based solutions for continuous data update every 1 second and access data.
- * **Deep Learning Model:** Used Keras with ReLU and Softmax for predictive analysis and classification to find value of DHT11 AND MQ-2 sensor.
- * **Data Visualization:** Created a live-updating map in 1 sec. with Folium and graphs on ThingSpeak for data display.

Certificate

Certificates | *Drive*

January 2023 - December 2023

3rd year in DSU