

# DIVYANK JAIN SINGHVI

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

## 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**