DIVYANK JAIN SINGHVI

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ML/DATA SCIENCE ENGINEER

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, Ardino, 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%, SE0- 89%

Predicting Ulcerative Colitis disease - Deep Learning Model | *Git*   **April 2024 - May 2023**

* **Model Implementation**: Developed a Deep Learning model and getting high accuracy in Resnet50 out of 12 different model as 94.86%
* **Data Preprocessing and Augmentation**: Used Keras ImageDataGenerator for advanced data preprocessing and augmentation, enhancing model generalization for all 12 models.
* **Model Training Optimization**: Optimized training with learning rate scheduling and class weights to 4 address class imbalance and enhance performance.
* **Accuracy Score**: vgg19-54%, vgg16-54%, densenet201-59.1% densenet169-61.1%, densenet121-60.8%, mobilenetV2-57.4%, mobilenet-63.4%, xception-54.4%, inceptionV3-53.8%, resnet50-94.8%, lenet-62.2%, alexnet-54%

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**: Implemented 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