# Dhruv Jitendra Limbani

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## Education

- **SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu** 2020-Present
  - B.Tech - Computer Science and Engineering with Specialization in Big Data Analytics - CGPA: 9.8 (6 Semesters)
- **Mother of Hope School, Ashadham, Vapi, Gujarat**
  - Gujarat Secondary and Higher Secondary Education Board (Std. 12th) - 78.40% (Ranked **top 1%**) 2020
  - Gujarat Secondary and Higher Secondary Education Board (Std. 10th) - 85.66% 2018

## Academic Honors and Awards

- **Performance based Scholarship** 2021-2023
  - Scholarship of **2200 USD** for holding **1st rank** out of 500 students in Data Science and Business Systems, SRMIST
- **Scholarship for Higher Education(SHE) Scholarship** 2020
  - **INR 80,000** per annum for five years for pursuing Bachelors and Masters level courses in Basic and Natural Science areas granted by Government of India, for being in **top 1%** in Gujarat State Higher Secondary Board Examination

## Research Publications

- **WEARS: Wearable Emotion AI with Real-time Sensor data** July 2022 - Feb. 2023

  DOI: 10.1109/CONECCT57959.2023.10234730
  - Developed a real-time smartwatch-based emotion prediction system and achieved a **93.75%** accuracy in binary classification of pleasant-unpleasant moods by analyzing smartwatch sensor data, including Heart Rate, Accelerometer, and Gyroscope inputs.

## Internship Experience

- **MAGPIE SDE Intern (Samsung R&D Institute - Bangalore)** May 2023 - July 2023
  - Assisted in developing user task prediction model with the On-Device AI solutions team using RNN models
  - Identified the incompatibility of the model, leading to valuable insights and process improvements during internship
- **Samsung PRISM Research Intern (Samsung R&D Institute - Bangalore)** July 2022 - Feb. 2023
  - Worked on Sensor based Mood Profiling to detect emotion in real-time through sensors on Samsung Galaxy Watch
  - Developed two Android WearOS based apps and achieved **93.75%** accuracy for mood prediction with an architecture of optimum set of sensors (Accelerometer, Gyroscope, Heart Rate)

## Personal Projects

- **ResuMate - Resume Analysis and Course Search Website** July 2023
  - NLP techniques were applied to the resume text dataset using NLTK library and machine learning methods using Python and Scikit-Learn were employed to identify user's target job role
  - Developed a website that provides skill and course recommendations with some suggestions and a score for the resume based on the target job role identified
- **SignAble - LSTM based Sign Language Action Recognition model** Dec. 2022
  - Built sign language action recognition model using Python, OpenCV, Scikit-Learn, TensorFlow, Keras and MediaPipe Holistic and achieved **96.4%** accuracy by implementing computer vision and deep learning techniques

## Extracurricular Activities and Achievements

- **Guvi Code Camp, SRM, Chennai (Student Club - Technical Team Member)** Dec. 2021 - Aug. 2022
  - Proposed a web based formal email template generator that can generate email templates based on user requirements and created a website and assisted with back-end development
  - Spearheaded the project and worked on the back-end APIs of the website
- **Think Digital, SRM, Chennai (Student Club - Vice Domain Leader)** Sept. 2021 - July 2022
  - Assisted in design and development of Machine Learning and Deep Learning models for intra club domain projects
  - Worked on Resume Enhancer: a website to help assess the user resume, identify and suggest changes on the resume
  - Developed an API for parsing basic user details like education, experience, skills
- **Bug-Out, DATAKON-2022, SRMIST (Debugging Competition)** Nov. 2022
  - Secured 3rd position in rapid fire for debugging of various codes in C and C++ programming languages

## Technical Skills and Interests

**Programming Languages**: Python, C, C++
**Developer Tools & Databases**: Git, VScode, Jupyter Notebook, Android Studio, Google Colab, Oracle SQL, SQL
**Frameworks**: Scikit-Learn, TensorFlow, Keras, OpenCV, NLTK, Streamlit, Flask, FastAPI
**Areas of Interest**: Machine Learning, Deep Learning, Data Science, Computer Vision, Natural Language Processing