

# Dhruv Limbani

B.Tech - Computer Science and Engineering  
SRM Institute of Science and Technology, Kattankulathur

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🌐 GitHub Profile  
🌐 LinkedIn Profile

## EDUCATION

- **SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu** 2020-Present  
*B.Tech - Computer Science and Engineering* CGPA: 9.8 (6 Semesters)
- **Mother of Hope School, Ashadham, Vapi, Gujarat** 2020  
*Higher Secondary Board, Gujarat* Percentage: 78.4%
- **Mother of Hope School, Ashadham, Vapi, Gujarat** 2018  
*Secondary Board, Gujarat* Percentage: 85.66%

## EXPERIENCE

- **Samsung R&D Institute** May 2023 - July 2023  
*MAGPIE SDE Intern* Bangalore
  - Assisted in developing On-Device AI solutions.
- **Samsung R&D Institute** July 2022 - Feb. 2023  
*Samsung PRISM Research Intern* Bangalore
  - Worked on Sensor based Mood Profiling to detect mood in real-time through sensors on Samsung Galaxy Watch.
  - Developed an architecture of optimum set of sensors and achieved 93.75% accuracy for mood prediction.
  - Developed an Android WearOS based app to predict the user mood for specific duration.
- **GCC SRM** Dec. 2021 - Aug. 2022  
*Technical Team Member* Chennai
  - Proposed a web based formal email template generator that can generate email templates based on user requirements.
  - Headed the project and worked on the back-end APIs of the website.
- **Think Digital SRM** Sep. 2021 - July 2022  
*Machine Learning Member - Vice Domain Lead* Chennai
  - Assisted on Machine Learning part of intra club domain projects.
  - Worked on Resume Enhancer: a website to help assess the user resume, identify and suggest changes on the weak parts of the resume.
  - Developed an api for parsing basic user details like education, experience, skills etc from any format of resume.

## PERSONAL PROJECTS

- **SignAble**  
*A Sign Language Action Translator website to help deaf and mute people communicate effectively.*
  - Tools & technologies used: Python, OpenCV, Scikit-Learn, TensorFlow, Keras, Streamlit, MediaPipe Holistic.
  - Achieved 96.4% accuracy using LSTM and MediaPipe Holistic and model was deployed using streamlit.
- **AIMS : AI powered Medical diagnostic System**  
*Website to help people identify diseases at early stage using symptoms.*
  - Tools & technologies used: Python, Scikit-Learn, Streamlit, FastAPI.
  - A full stack website was developed and based on the user's symptoms, a random forest classifier approach was used to identify the set of possible diseases a user might have.
- **Weapon Detection System**  
*A real-time weapon detection system that can further be integrated in CCTVs.*
  - Tools & technologies used: Python, Scikit-Learn, OpenCV, YoloV4, Qt Designer, PyQt, sqlite3.
  - A GUI with backend was developed using PyQt to allow users to create account and register CCTVs, address and contact details and enable real-time detection of weapons.
- **Employee's Burnout Rate Estimator**  
*ML model to predict Employee's burnout rate to avoid lower productivity and Higher absenteeism.*
  - Tools & technologies used: Python, Scikit-Learn.
  - Machine Learning model was built with linear regression algorithm to predict Employee's burn rate based on gender, date of joining, designation etc.

## TECHNICAL SKILLS AND INTERESTS

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**Programming Languages:** Python, C, C++

**Developer Tools:** Git, VScode, Jupyter Notebook, Android Studio

**Frameworks:** Scikit-Learn, TensorFlow, Keras, OpenCV, NLTK, Streamlit, Flask, FastAPI

**Cloud/Databases:** Heroku, Oracle SQL, SQLite

**Areas of Interest:** Artificial Intelligence, Machine Learning, Deep Learning, Data Science

## ADDITIONAL RELEVANT COURSES

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<b>Data Visualization with Tableau Specialization</b> by UC Davis, Coursera	<i>Apr. 2023</i>
<b>Statistics for Data Science with Python</b> by IBM, Coursera	<i>Apr. 2023</i>
<b>Database Foundations</b> by Oracle Academy	<i>Mar. 2023</i>
<b>Apache Spark (TM) SQL for Data Analysts</b> by databricks, Coursera	<i>Nov. 2022</i>
<b>Machine Learning by Andrew NG</b> by Stanford Online, Coursera	<i>Aug. 2022</i>
<b>Data Analytics with Python</b> by IIT Roorkee from NPTEL, achieved 73% score with Elite certificate	<i>Apr. 2022</i>
<b>Data Structures</b> by UC San Diego and Higher School of Economics, Coursera	<i>Nov. 2021</i>
<b>Python for Data Science</b> by IIT Madras from NPTEL, attained 83% score with Elite + Silver certificate	<i>Aug. 2021</i>

## ACADEMIC HONORS AND AWARDS

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- Performance based Scholarship (2nd Year)** for holding rank in the department of Data Science and Business Systems, SRMIST. *2022*
- Performance based Scholarship (1st Year)** for 2nd rank in the department of Data Science and Business Systems, SRMIST. *2021*
- Scholarship for Higher Education(SHE) Scholarship** granted by Ministry of Science and Technology, Government of India, for being in top 1% in Gujarat State Higher Secondary Board Examination. *2020*

## EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

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- Samsung PRISM Research Program** *Jun. 2023*  
*A student program offering students a chance to work on real-world projects with Samsung's top technical experts*
  - Earned Certificate Of Excellence for the research work in the field of Emotion Intelligence.
- Hack-O-Philia (Coding Hackathon)** *Mar. 2023*  
*Conducted by Department of Data Science and Business Systems, SRMIST, Chennai*
  - Project: Web application for general diseases diagnosis.
  - Contributed in building and hosting a machine learning model for diseases classification based on user symptoms.
  - Reached final round
- Bug-Out (Debugging Competition)** *Nov. 2022*  
*Conducted in DATAKON-2022 event organised at SRMIST, Chennai*
  - Secured 3rd position
- Smart India Hackathon (Internal selection)** *Mar. 2022*  
*Conducted by SRMIST, Chennai*
  - Project: A website for physically challenged people to find and apply for the suitable job opportunities around them.
  - Contributed in building a website scraper for extracting job details for physically challenged people.
  - Reached final round of internal shortlisting for university representation at national level.

## RESEARCH PUBLICATIONS

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- WEARS: Wearable Emotion AI with Real-time Sensor data** *July 2022 - Feb. 2023*  
*DOI: 10.1109/CONECCT57959.2023.10234730*
  - Published in: 2023 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)
  - The research paper introduces a smartwatch-based system for emotion prediction using physiological sensors.
  - Real-time experiments with videos in multiple languages were conducted to collect data for binary classification.
  - The study found that the Multi-Layer Perceptron achieved a notable 93.75% accuracy in classifying pleasant and unpleasant moods.