

Harsh Shroff

Ahmedabad, Gujarat, India



151harshshroff@gmail.com



+91 94296 69960



[linkedin.com/in/harsh-shroff-3560391ba](https://www.linkedin.com/in/harsh-shroff-3560391ba)



<https://github.com/HarshShroff>

Summary

Passion and dedication are two characteristics that I feel best represent me as a person. This, in my opinion, is the secret to success in any pursuit that one sets their mind to. I enjoy coming up with fresh ideas and developing workable answers to broad-reaching challenges. I like to embrace failures' lessons, get back up, and keep growing.

Experience



Electronics and Machine Learning Intern

WeHear

Jan 2022 – April 2022 (3 months)

- Work on spectroscopy
- Research various on ML concepts
- Assist in hardware and software designing
- Research and development on speech identification



Embedded Systems Engineer Intern

Episodic Labs

Feb 2021 - Aug 2021 (7 months)

- Worked on Raspberry Pi
- Interfaced two cameras with RPi 3 and 4
- Assisted in PCB design of CM 4 IO board



Research Fellow

Tod'Aérs - Transparent Organization for Aeronautics and Space Research

Dec 2020 - Apr 2021 (5 months)

- Was in a team to design Nano satellites
- Extended our work from SSERD internship



Internship Program

Society for Space Education Research and Development (SSERD)

Sep 2020 - Oct 2020 (2 months)

Role: Research Intern

- Was in a team to design Femto satellites for remote sensing and fire monitoring
- Learnt to write research papers

Education



Vishwakarma Government Engineering College, Ahmedabad

Bachelor of Engineering - BE, Electronics and Communications Engineering

2019 - 2022



Government Polytechnic, Ahmedabad

Diploma, Electronics and Communication Engineering

2016 – 2019

Projects












- TABSAT | Research Internship at SSERD, Bangalore
 - Theoretical Design Approach of Distributed Femto-satellite system for forest fire monitoring.
 - View Project: <https://teamfemoyer.sserd.org/>
- IoT Based Notice Board | Diploma final semester project
 - Internet controlled and Raspberry Pi operated noticed board, which is currently implemented in the EC Department, Government Polytechnic Ahmedabad.
 - View Project: <https://boardofnotice.000webhostapp.com/> and <https://boardofnotice.000webhostapp.com/new2.php>
- Dr. Tongue | Ranked 4th at Ideathon 2021
 - Web application designed for tongue diagnosis, based on ML model trained using python and integrated with a website.
 - View Project: https://github.com/HarshShroff/Dr_Tongue
- WhatsApp Chat Analyzer
 - A web app designed in python with the help of Streamlit to analyse and visualise WhatsApp chats.
 - View Project: <https://github.com/HarshShroff/WhatsApp-Chat-Analyzer> and <https://hs-wca.herokuapp.com/>
- Mosquito Species Identification from its Wing Beats on a TinyML Device | Research Paper has been accepted for ITU Kaleidoscope 2021 Conference.
 - View Paper: [Kaleidoscope 2021Conference Proceedings.pdf](#) [P.P. 117-122]

Achievements

- Speaker at SciPy India 2021, organized by FOSSEE and IIT Bombay.
- One of the winners at a hackathon organized by the International Telecommunication Union and The Telecommunications and Digital Government Regulatory Authority of United Arab Emirates.

- Recipient of Young Author Recognition Award at Kaleidoscope 2021 conference organized by International Telecommunication Union.
- Published a research paper on "Identification of Deadliest Mosquitoes from its Wing Beats Sound Classification on Tiny Embedded System using Machine Learning and Edge Impulse Platform" at Kaleidoscope 2021 conference organized by International Telecommunication Union.
- One of the finalists at "Dreams to Reality" contest organized by Sony Research India
- An article on one of my projects "Smart Dresser: an AI based Outfit Selector" has been published in a nationally renowned newspaper, Ahmedabad Mirror.

Certifications

-  **Python for Data Science and AI - IBM**
-  **Machine Learning with Python - IBM**
-  **Machine Learning - Stanford Online**
-  **Getting Started with AI on Jetson Nano - NVIDIA**
-  **Fundamentals of Deep Learning - NVIDIA**
-  **Building Transformer-Based Natural Language Processing Applications – NVIDIA**
-  **Introduction to TF for AI, ML and DL - DeepLearning.AI**
-  **CNN in TensorFlow - DeepLearning.AI**
-  **Natural Language Processing in TensorFlow - DeepLearning.AI**
-  **ITU Kaleidoscope 2021 | Participant - International Telecommunication Union**
-  **Introduction to Embedded Machine Learning - Edge Impulse**

Skills

Embedded Systems	Machine Learning	Python Programming
R programming	Data Science	Artificial Intelligence
Web Design	Microcontrollers	R&D
Arduino Programming	Edge Impulse	