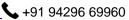
Harsh Shroff

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in 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
 - o 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 Al 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 Al on Jetson Nano NVIDIA
- Fundamentals of Deep Learning NVIDIA
- Building Transformer-Based Natural LanguageProcessing Applications NVIDIA
- Introduction to TF for AI, ML and DL DeepLearning.AI
- CNN in TensorFlow DeepLearning.Al
- Natural Language Processing in TensorFlow DeepLearning.Al
- 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