Rohit Midha

https://rohitmidha23.github.io/

Email : rohit.midha23@gmail.com
Github: RohitMidha23

Education

- **SSN College of Engineering, Anna University** — Tamil Nadu, India
  Bachelor of Engineering in Computer Science and Engineering; GPA: 8.99/10.0 — *Aug. 2017 –*

Experience

- **Indian Institute of Technology, Madras** — Chennai, India
  Research Intern — *November 2019 – Present*
  - **Large Scale Video Recognition**: Working on large scale real time data for object detection and number plate recognition to model traffic flow and density dynamically.
- **Sigmoid** — Bangalore, India
  Data Scientist Intern — *May 2019 – July 2019*
  - **Named Entity Recognition**: Worked on using Conditional Random Fields, Recurrent Neural Networks and Long Short Term Memories for Named Entity Recognition of Medical Drugs.
  - **Quantum Machine Learning**: Wrote machine learning algorithms optimized to work on a quantum computer such as quantum linear regression and Quantum Neural Networks
- **CodeFemme** — Chennai, India
  Founder, CTO — *June 2018 – Present*
  - **Te(a)chTheTeach**: Te(a)chTheTeach is a workshop series aimed at teaching PGT's about Python and it's various Libraries. Taught 100+ CBSE teachers so far.
  - **Numpy, Pandas and Neural Nets**: Guest Lecture on the topic "Numpy, Pandas and Neural Nets" at Kendra Vidyalya, Indian Institute of Technology, Madras. 50+ teachers from across the country in attendance.

Research: Publications, Posters and Talks

- **A Low Cost Solution to the Open Images Instance Segmentation Challenge**: Poster accepted at International Conference on Computer Vision (ICCV), 2019
- **Transfer Learning for International Crisis Response**: Talk and Presentation at the Challenge Track of Applied Machine Learning Days (AMLD), 2020

Projects

- **pharmassist**: A novel label and Android App that lets visually impaired people gain health literacy.
- **jargone**: An app that summarizes Terms and Conditions to keep you informed about the data companies collect.
- **Calmity**: An app that helps victims of a disaster find food, transport and shelter in nearby places.
- **trashify**: Android Application that uses Deep Learning and TensorFlowLite to classify your trash into 3 categories.
- **Facial Recognition Attendance Manager**: Creating a prototype of a model attendance manager using Facial Recognition integrated with Raspberry Pi, Cameras and Firebase requests made by the student.
  Fully funded by SSN College of Engineering.

Achievements

- **Rank 2, Transfer Learning for International Crisis Response, DEEP - AiCrowd**: Jan 2020
- **Winner, AstraZeneca AI Hackathon, IIT Madras**: Jan 2020
- **Rank 1, Food Recognition Challenge, Seerave Foundation - AiCrowd**: Dec 2019
- **Rank 208 of 6000+ participants, IEEE CIS Fraud Detection Challenge**: October 2019
- **Rank 34, Open Images Instance Segmentation Challenge**: October 2019
- **Runner Up, Amazon Web Services (AWS) Challenge, AngelHack Global Virtual Hackathon**: July 2019
- **Winner, Indian Sub-Continent, AngelHack Global Virtual Hackathon**: July 2019
- **Merit Scholarship, SSN College of Engineering**: December 2018
- **Finalist, International Youth Math Challenge**: November 2018

Programming Skills

- **Languages**: Python, C, Java, C++, SQL
- **Frameworks and Technologies**: Android Studio, Keras, TensorFlow, PyTorch, FastAI