Rohit Midha

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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 –*

- **Maharish Vidya Mandir Senior Secondary School** Chennai, India
  High School Diploma; AISSCE : 96.4% (482/500) *June. 2015 – July. 2017*

EXPERIENCE

- **Indian Institute of Technology, Madras** Chennai, India
  Research Intern *November 2019 – Present*
  - **Mentors**: Professor Gitakrishnan Ramadurai, Professor Balaraman Ravindran
  - **License Plate Recognition**: Working on a system to recognise license plates from videos obtained from CCTV cameras.
  - **Vehicle Counting**: Working on a real time system that works with large scale data obtained from traffic cameras across the city for vehicle counting to model dynamic traffic flow.

- **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 built a quantum Neural Network for Credit Card Fraud Detection.

- **SSN Model United Nations** Chennai, India
  Under Secretary General, Technology and Development *Apr 2019 – Present*
  - **Team**: Heading a team of 5 developers in all matters Tech related for the college Model United Nations.
  - **Website**: Built a dynamic website with Python, Flask, HTML and JavaScript using basic concepts of Bootstrap and MongoDB.

- **GeeksForGeeks** Chennai, India
  Technical Content Writer – Algorithm blogger *Jan 2019 – Jan 2020*
  - **Articles**: Written Various articles on topics ranging from basics of Python to Complex 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: POSTERS, PUBLICATIONS 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. Reads out easy instructions for pills when prescription bottle is placed on phone screen. Connected with Alexa for easy access.
- **jargone**: A web app that summarizes Terms and Conditions to keep you informed about the data companies collect from you.
- **Calmity**: An app that helps victims of a disaster find food, transport and shelter in nearby places and allows them to make SOS calls. Further, allows able users to finding NGOs that they can volunteer at and post about any amenities that they have to offer.
- **trashify**: Android Application that uses Deep Learning and TensorFlowLite to classify your trash into 3 categories. Prototype of model using Raspberry Pi in implementation phase.
- **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.
- **Other**: The SSNMUN Website, binarify (convert images to binary art), Indian License Plate Recognition.

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
- **Top 8 Teams at AngelHack Bangalore**: June 2019
- **Rank 503 of 9000+ participants, Santander Customer Transaction Prediction** : April 2019
- **Runner Up, Anna University, Abacus Datathon**: March 2019
- **Runner Up, MotorQ Hackathon**: March 2019
- **Runner Up, HackerSpace, SSN College of Engineering**: Feb 2019
- **Second Runner Up, Anna University, Kurukshetra Datathon**: Feb 2019
- **Second Runner Up, IEEE Makeathon**: Jan 2019
- **Top 5 Teams, Major League Hacking, Local Hack Day**: Dec 2018
- **Finalist, International Youth Math Challenge**: Nov 2018
- **Indumathi Muthukumar Award**: June 2017

Scholarships

- **Merit Scholarship, SSN College of Engineering**: Dec 2018
- **Secure and Private AI Scholarship, Facebook**: May 2019

Programming Skills

- **Languages**: Python, C, C++, SQL, Java, JavaScript, Shell

- **Frameworks and Technologies**: Android Studio, React, Keras, TensorFlow, PyTorch, FastAI

Volunteering

- **Computational Thinking Workshop**: Organised a workshop for freshers at SSN College of Engineering to introduce computational thinking in the form of activities.

- **fn plus**: Community contributor at fn+. Helped in conducting workshops and designing learning paths.

- **Google AI Explore ML**: Organized a workshop on Introduction to ML and DL at SSN College of Engineering with the respective facilitator.

- **ACM SSN Student Chapter**: Organized a workshop on Blockchain and Hyperledger at SSN College of Engineering.