

# Rohit Midha

<https://rohitmidha23.github.io/>

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## EDUCATION

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- **SSN College of Engineering, Anna University** Tamil Nadu, India  
*Bachelor of Engineering in Computer Science and Engineering; GPA: 9/10.0* Aug. 2017 –

## EXPERIENCE

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- **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 Vidyalaya, Indian Institute of Technology, Madras. 50+ teachers from across the country in attendance.

## RESEARCH AND PUBLICATIONS

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- **A Low Cost Solution to the Open Images Instance Segmentation Challenge:** Poster accepted at International Conference on Computer Vision (ICCV), 2019

## PROJECTS

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- **pharmassist:** A novel label and Android App that lets visually impaired people gain health literacy.
- **jargone:** A web app that summarizes Terms and Conditions to keep you informed about the data companies collect from you.
- **Calimity:** An app that helps victims of a disaster find food, transport and shelter in nearby places.
- **trashify:** Android Application that uses Deep Learning and TensorFlow Lite 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.
- **Other:** The SSNMUN Website, binarify (convert images to binary art), Indian License Plate Recognition.

## ACHIEVEMENTS

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- **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
- **Rank 503 of 9000+ participants, Santander Customer Transaction Prediction :** April 2019
- **Runner Up, MotorQ Hackathon:** March 2019
- **Merit Scholarship, SSN College of Engineering:** December 2018
- **Finalist, International Youth Math Challenge:** November 2018

## PROGRAMMING SKILLS

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