

Samarth Negi

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EDUCATION

- **Maharaja Agrasen Institute of Technology , Indraprastha University** Delhi , India
Bachelor of Engineering in ECE; Overall Percentage : 67.3 Aug. 2015 – Aug. 2019
- **Delhi Public School, Vasant Kunj** Delhi, India
Class 12; Overall Percentage : 92.6 Aug. 2013 – Jul. 2015

EXPERIENCE

- **Lexsom** Delhi , India
Technical Lead January 2019 - Present
 - **Arduino:** Arduino is an open-source platform used for prototyping interactive devices based on a C++ IDE and single board microcontrollers. I used it to interface to an IR camera sensor to detect room occupancy.
 - **Processing:** Processing is an open-source graphical library and integrated development environment built for the electronic arts and real time graphic visualisation. I used processing for developing algorithms to track room occupancy from sensor data
- **Deepsync** Bangalore , India
Audio Engineering Intern Dec 2018
 - **Waves sound processing toolkit:** Waves toolkit is a sound processing toolkit used for real time audio manipulation in the time and frequency domain. Used it for cleaning audio dataset of noise and isolating the speaker voice .
 - **Juce Audio:** JUCE is a partially open-source cross-platform C++ application framework which I used for automating the cleanup process to make preprocessing quicker.
- **Ananth Technologies** Hyderabad , Telangana
Software Engineering Intern July 2017
 - **OpenCV:** Service for sending email, push and in-app notifications. Involved in features such as delivery time optimization, tracking, queuing and A/B testing. Built an internal app to run batch campaigns for marketing etc.
 - **Pandas:** Bulk data processing and injection service from Hadoop to Cassandra and provides a thin REST layer on top for serving offline computed data online.

PROJECTS

- **Election Yoda , 2018:** Twitter data scraping and analysis tool for generating election related stats.
- **MiKey , 2018:** Open source software for analysis and sorting of midi files
- **Fish freshness detector , 2017 :** Image processing based software to determine fish quality from its photos
- **Gas Monitoring System , 2016:** Arduino based large scale predictor using cheap gas detection sensors

PROGRAMMING SKILLS

◦ **Languages:** Python, C++, Javascript

Technologies: OpenCV , Tensorflow , Pandas , Arduino

PUBLICATIONS

- **An Efficient Image Processing Based Method for Detecting Discontinuities in Railway Tracks(First Author):** `jPaper NAME herej`