

MAHARSH SURYAWALA

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Education

School of Engineering and Applied Science (SEAS), Ahmedabad University (AU)	Ahmedabad, GJ
B.Tech in Information and Communication Technology	August 2016 — June 2020
Grade Point Average:	3.54/4.00
Cumulative Grade Point Average:	3.10/4.00

Experience

Thomson Reuters	Ahmedabad, India
<i>Associate Software Engineer</i>	June 2020 — Present

- Designed and implemented a feature to automatically retrieve client association details from Australian Taxation Office to [ONVIO](#).
- Currently working on a Thomson Reuters (Tax & Accounting) product - [ONVIO](#).

<i>Tech Intern</i>	December 2019 — May 2020
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- Automated DevOps Artifact Migration from one artifactory instance to another, along with various package filtering options using PowerShell.
- Automated Token-Rotation from generating a new token to updating the tokens at various service endpoints, variable groups, and builds; using JFrog REST API, Azure DevOps REST API, and PowerShell.

Fusion Informatics Limited	Ahmedabad, India
<i>Machine Learning Intern</i>	May 2019 — July 2019

- The internship consisted of making a user-interactive tool that automatically recognizes food from images using deep-learning and outputs the nutrition facts.

EasyHire India	Ahmedabad, India
<i>Machine Learning Intern</i>	May 2018 — July 2018

- The internship consisted of making a Natural Language Processing based model that provides the university students with their plausible work fields by analyzing their past contributions, course-work, project work & achievements.

P & K Private Limited	Ahmedabad, India
<i>UI/UX Intern</i>	May 2017 — June 2017

- The internship consisted of making wire-frames, automation models, designing web themes, prototyping and testing for various websites.

Projects

Predict Diseases From Symptoms	January 2020 — March 2020
Skills Used: Python, Jupyter Notebook, NetworkX, Scikit-Learn	

Created a network-graph to analyse the common symptoms between diseases, most common symptoms, most common diseases, etc. Additionally, implemented a system that predicts diseases from symptoms using a random-forest classifier.

Bilateral News	January 2020 — March 2020
Skills Used: Python, Jupyter Notebook, Django, SciPy, BeautifulSoup, Scikit-Learn, NLTK	

A web application along with a chrome-extension that finds news-articles matching a query and provides two different views of the news using clustering.

Big Data As A Service In Multiplayer Online Survival Games	August 2019 — December 2019
Skills Used: Hadoop, REST, Apache Spark, Python, Apache HBase, Overwolf	

A distributed system that provides a service to store, retrieve, and analyse the game data of popular multiplayer online survival games such as CS: GO, PUBG, Fortnite, etc.

Heart Disease Risk Prediction	August 2019 — October 2019
Skills Used: R, R Notebook	

A system that predicts the risk of heart diseases in patients using information such as chest pain, cholesterol, Thalassemia, Exercise Induced Angina, ECG, etc.

Face Detection And Facial Expression Recognition	Jan 2019 — March 2019
Skills Used: Python, Jupyter Notebook, Keras, TensorFlow, OpenCV, Scikit-Learn	

A systematic comparison of different machine learning & deep learning algorithms applied to the problem of fully automatic recognition of facial expressions.

Food Image Recognition

January 2019 — April 2019

Skills Used: Python, Jupyter Notebook, Flask, Keras, TensorFlow, OpenCV, Scikit-Learn

Re-trained the final layer of Inception-V3 model with additional 101 classes to automatically recognize food from images. Achieved a validation accuracy of 78% on the same.

Microprocessor Without Interlocked Pipeline Stages

September 2017 — December 2017

Skills Used: Verilog, Xilinx ISE

RISC based 8-bits five stage pipelined processor, operating at 579.67 MHz clock frequency with 19 I/O pins and 28 instructions having 5 Addressing formats. Tested on Xilinx Artix-7 FPGA.

Positions of Responsibility

Undergraduate Teaching Assistant, Ahmedabad University

August 2019 — December 2019

Course: Data Science

- Prepared the course material for certain modules.
- Conducted and supervised quizzes and vivas.
- Assisted in planning the learning activities.
- Supported students by providing peer-tutoring and doubt-solving.

Volunteer, Ahmedabad University

October 2019 — December 2019

The Seventh International Conference on Big-Data Analytics 2019

Course Associate, Ahmedabad University

December 2018 — January 2019

Course: Machines, Mechanisms & Automata

- Conducted lectures on the basics of Arduino Programming.
- Took regular attendance and reserved labs & classrooms as per the availability of students and faculties.
- Supported students by arranging doubt solving sessions.

Student MITR as a part of Circle Of Care Initiative

January 2018 — December 2018

The Peer Support System at Ahmedabad University

- Mentored the freshly admitted undergraduate students during their freshman year.
- Conducted various ice breaking activities and campus tours.
- Supported students in the challenging phase of transition from School to University by providing guidance and arranging weekly meetings with faculty members.

Volunteer, Ahmedabad University

June 2018

Faculty Development Programme on "Advanced 5G Wireless Communications: Performance Analysis and Monte-Carlo Simulations"

- Designed the posters, banners, brochures, and the graphical content for the Faculty Development Program.

Lead Graphic Design Coordinator

January 2017 — December 2018

Event Organising Team, School of Engineering And Applied Science

Co-Curricular Activities

- **Winner** — Ingenious Hackathon, Ingenium - 2020 (Technical Festival, SEAS).
- Certifications:
 - 1) [Algorithms Design And Analysis \(Stanford Online\)](#)
 - 2) [Algorithms Design And Analysis, Part-2 \(Stanford Online\)](#)
 - 3) [Statistical Learning; with distinction \(Stanford Online\)](#)
 - 4) [Machine Learning A-Z: Hands on Python and R in Data Science \(Udemy\)](#)
 - 5) [Deep Learning A-Z: Hands on Artificial Neural Networks \(Udemy\)](#)
 - 6) [Blockchain A-Z: Learn How To Build Your First Block-chain \(Udemy\)](#)
 - 7) [Python Programming Track \(DataCamp\)](#)

Extra-Curricular Activities

- **Runners Up** — Indian Group Singing : Youth Festival, Ahmedabad University (2016-2017).
- Lead guitarist and the founding member of Infinity Band at the School of Engineering and Applied Science, Ahmedabad University.
- Performed an opening act for The Local Train Band on 20th March, 2018 and Kenny Sebastian on 20th March, 2019.

Additional Links

-  [Personal Portfolio](#)