Itish Makhijani

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Education

Arizona State University — Tempe, AZ
Masters of Computer Science, MCS — *Aug. 2019 – May 2021*
Guru Gobind Singh Indraprastha University, GGSIPU — Delhi, IND
Bachelor of Information Technology — *Aug. 2015 – May 2019*

Experience

Tutor - Computer Science — Aug 2020 – Present
Arizona State University — *Tempe, AZ*

- Tutoring undergraduate students enrolled in Computer Science (CSE) at Arizona State University for 100, 200 and 300 Level Courses
- Mentoring and guiding undergraduate students struggling with basic concepts of Python, C++, OOPS and C in distributed environments

Software Engineer Intern — Jun. 2018 – Aug 2018
Tyco International (Fire and Security India Pvt Ltd) — *Gurugram, Haryana, IND*

- Worked on Network Management System (NMS) for a new developmental project, providing inputs for the prevalent architecture of product installation over a floor plan
- Maintained and communicated with TCP/IP controllers using MS- SQL2000 Server, using Transact Structured Query Language (SQL)
- Implemented NMS and updated floor plan's network topology, on a project powered by TYCO, namely The Tril Project

Projects

Mining and Clustering CGM Time-Series Data | *Data Science,Python* — Aug 2020 – Dec 2020

- Performed clustering using DBSCAN and KMEANS techniques, cross validated the clustering mechanism by calculating entropy and purity metrics
- Performed association rule mining (Apriori Algorithm) on the meal dataset

Feature Extraction from CGM Time-Series Data | *Data Science, Python* — Aug 2020 – Dec 2020

- Mined meal and no meal data from given CGM time series data
- Extracted multiple features from the extracted data set
- Implemented Support Vector Machine ML- Model to train the machine and predict newly fed data points as meal or no meal

Emoji Recognition | *Python, OpenCV haarcascade* — May 2020 – Aug 2020

- Classification of facial expressions to corresponding emojis using convolution neural networks and machine learning

LiDAR Filter Design | *Python* — Aug 2019 – Dec 2019

- Designed and implemented temporal median and range filters, to reduce noise in scans from LiDAR

Classification American Sign Language | *Python, Flask* — Aug 2019 – Dec 2019

- Collected X and Y coordinated from PoseNets repository and extracted features from collected data set
- Enabled RESTful services for trained ML models using flask hence using them to predict gestures from videos

Water Sample Analysis | *Python, R, Tableau* — Aug 2016 – Feb 2017

- Trained Naïve Bayes ML Model with the ratio of BOD to COD values calculated via Winkler's Process, hence estimated the values to classify the type of waste water samples
- Extracted results were visualized using R-Visualization mechanisms (Q-plot/ GG-plot) and were compared with visualizations spawned via Tableau

Technical Skills

Languages: Python, C/C++, R, SQL (Postgres), HTML/CSS, Java Script, OpenCV
Frameworks: Node.js, Flask, JUnit
Developer Tools: Axure, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Idle, Google Colab, Anaconda (Spider), Eclipse
Libraries: pandas, NumPy, Sklearn