Aniket Devle

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Education

MS in Computer Science   **Jan. 2021 – Present**
Arizona State University   *GPA: 3.95/4.0*

Bachelor Of Technology in Electrical Engineering   **Aug. 2015 – May 2019**
Veermata Jijabai Technological Institute   *GPA: 7.29/10*

Experience

Sensagrate LLC   **June 2021 – Aug 2021**
Software Development Intern   *Tempe*
- Built a Python application for analysis and prediction of near-miss collisions using Signal Phase and Timing data.
- Annotated pedestrians and vehicles in a LIDAR point cloud dataset using understand.ai.

Center of Excellence (COE-CNDS) VJTI   **Sep 2019 – Dec 2019**
Student Intern   *Mumbai*
- Cleaned the data available from SNORT systems using Sklearn.
- Designed a model to predict cyber-attacks on a power grid using SVM, Naive Bayes and Random Forest.
- Worked on classification of cyber-attacks and system faults.

Technical Skills

Languages: Python, Java, C++, JavaScript, MySQL, PostgreSQL.
Technologies: Sciket-learn, TensorFlow, Keras, HTML, CSS , Flask, ROS, D3, Seaborn, Matplotlib.
Developer Tools: AWS, Amazon EC2 ,Vs Code, Github, Jupyter Notebook, Confluence, Jira, Google Trends.

Projects

Multimedia Retrieval System | *LSH, VA files, Decision Tree, SVM*   **Nov 2021**
- Developed a multimedia retrieval system using Locality Sensitive Hashing and Vector-approximation files.
- Implemented PCA and SVD for dimensionality reduction on features extracted using color moments, local binary patterns, and HOG on images.
- Coded SVM and Decision Tree classifiers to improve Nearest Neighbor search results using relevance feedback.

Analysis of Newspaper Propaganda Biases | *D3, JavaScript, python*   **Nov 2021**
- Built a system for visualizing bias in newspapers articles by creating a bubble chart, stream graph of propaganda techniques, and word cloud for an article.
- Efficiently fetched propaganda techniques using PRTA API by reducing the number of calls to fit the call frequency limits.

Movie Recommendation system | *KNN , Collaborative filtering*   **Nov 2021**
- Performed Exploratory Data Analysis on the Movie Lens dataset.
- Implemented a movie recommendation system using a content-based and collaborative filtering-based approach.

Botnet Detection on Social Media | *CLBS*   **Apr 2021**
- Implemented Coordinated Link Sharing Behaviour (CLSB) on Twitter's UK elections dataset.
- Achieved 78 percent recall and 97 percent accuracy for bot detection on highly skewed dataset.
- Identified the accounts that are most amplified by the bots during 2016 UK elections.

Pursuit Evasion Game | *Python, OpenCV, YOLOv3, Gmapping,Gazebo*   **Mar 2021**
- Successfully built a human detection and following system using YOLOv3 for an evader and a pursuer simulated in Gazebo.
- Created maps for two distinct environments using SLAM, Gmapping and ROS.

Stereo Camera Calibration and Depth Sensing | *OpenCV, Image Processing*   **Feb 2021**
- Created an Python application using OpenCV and PyCharm to calculate intrinsic parameter of the stereo camera.
- Performed analysis on the images to calculate depth of each pixel in an image using disparity map.

Maximum Intensity Light Tracker | *C++ , Arduino Uno*   **Mar 2019**
- Engineered an Arduino-controlled robotic arm to align solar panels towards maximum intensity of light using LDR.
- Improved the overall power output of the solar panels by up-to 40 per cent.

Extracurricular

- Completed Python3 Specialization(Coursera).
- Completed Machine Learning certification(Coursera).