SAI VAMSI OGETY

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EDUCATION

MS in Computer Engineering **Aug 2018 - May 2020**
Arizona State University- Tempe, AZ
Bachelors in Electronics and Communications Engineering **Aug 2012 - June 2016**
PESIT - Bengaluru, INDIA

SKILLS

Programming: Python, SQL, Java, HTML&CSS, JavaScript
Libraries and Frameworks: Numpy, Pandas, SciKit-Learn & TensorFlow, Keras, OpenCV, Django
DBMS: MySQL, PostgreSQL
Visualization libraries: Matplotlib, Seaborn, Folium, D3.js
Courses: Data Mining, Data Visualization, Foundations of Statistical Learning, Perception in Robotics, Artificial Intelligence, Random signal Theory, Foundation of Algorithms, Dataquest: Data scientist path.
Other Tools: MATLAB**,** AWS Sagemaker**,** Tableau, Microsoft Excel, Jupyter, Power BI, G-Cloud, Git & Version Control

PROFESSIONAL EXPERIENCE

Data Science Open Lab, Tempe, AZ: Research Assistant **Aug 2018 – Sep 2019**

- Collaborated with ASU School of Earth and Space Exploration on a project called Moon Crater Detection.
- Created data pipelines by using Image Segmentation and Object detection algorithms like Mask R-CNN and YOLO.

Wipro Limited, Bengaluru, INDIA: Project Engineer **Aug 2016 - July 2018**

- Worked closely with product managers and engineers in designing and analyzing A/B testing, provided data support for product decisions and new feature launches.
- Agile web development using Django/Python for automatic tracking system.
- Designed and maintained Dynamic reports using SQL.
- Visualized product metrics and analyzed the root cause for the high cost of thermal lab usage in Tableau.

PROJECTS

Doccurate: A clinical text data visualization

- Created an Interface using **Vue framework** and **d3** library to visualize patient medical records. The interface consists of Text panel, Time line panel and control panels which will help doctors get high-level summary of patient's history in short period of time. The patient records dataset is synthetically created using SNOMED-CT medical taxonomy.

Detect an Isolated Zoom Action: FOX ML Hackathon

- Implemented **InceptionV3** CNN model to detect Isolated zoom action from the video frames of Basketball game.
- The top layers of the model are trained using the 500k labelled frames from the game using **AWS sage maker**.
- The final model gave a test accuracy of 90.15 and presented the results in front of Judges from FOX Technology team.

SafeApp: Sun Hacks MLH-2019

- Designed a web app that lets users to plan their safe route from source to destination. The constraints on locations are based on crime dataset and the route functionality is implemented by Integrating Esri API into the web app. We ended up as Second runner up under the category of social cause.

Location based Recommendation System

- This project enables users to ask for locations based on their type of businesses.
- Data related to venues around a location is given by Foursquare API and clustering is performed to suggest locations.

Reconstructing Noise Images of Fashion-MNIST Dataset using Auto-Encoders

- Developed denoising auto-encoders to reconstruct noisy images of Fashion-MNIST dataset using NumPy library and finetuned it by varying hidden layer nodes, learning rate and noise level in the input images. Also, Developed Stacked sparse auto-encoders and performed greedy layer wise training with different levels of noise to classify the images. The classification accuracy of 78% was achieved by finetuning the model.

ACHIEVEMENTS AND ACTIVITIES

- 3rd runner up in Eureka's online Techathon competition for making best regression model.
- 2nd Place in Pixy-challenge in Hack Arizona Hackathon for making a person tracker robot using pixy camera.
- Completed all the courses and challenges under Data Scientist path in Dataquest.