SHRIDEVI REDDY

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EDUCATION

Master of Computer Science, University of North Carolina, Charlotte.   May 2020
Relevant Coursework: Machine Learning, Data Structures, Data Mining, Information visualization, Software Engineering, Networking,Reinforcement Learning, Big data Databases.

SKILLS

Languages	Python(NumPy, Pandas,Scikit-Learn,Tensorflow, Keras), R, Matlab, SQL.
Visualization	Tableau, Python(Matplotlib, Seaborn), SAS, SPSS.
Machine Learning	Regressions, Random Forest, SVM, XGBOOST, Clustering, PCA, Deep Learning.
Tools and Platforms	GIT, Docker, MySQL, AWS, GCP.

EXPERIENCE

Machine Learning Intern   Jun 2020 - Present
University of North Carolina, Charlotte   *Remote*

- Research internship focused on building robust machine learning model.
- Implemented different CNN architecture, generative model(VAE, GAN) and computer vision techniques like Co-occurrence matrix, Local Binary Pattern for detecting adversarial samples.
- Improved detection rate of adversarial samples by 90% and thus resulting in model accuracy rate of 90%.
- Assisted with research, literature reviews, data collection and statistical analysis. Reviewed and presented latest deep learning research papers and generated codes to reproduce results.

PROJECTS

Fighting Adversarial attacks (Deep Learning)

- Research oriented project focused on fighting adversarial attacks in deep learning with traditional computer vision techniques, generative model like Auto-encoder, VAE GAN and different CNN architecture .
- Achieved accuracy rate of 90% in adversarial scenarios.
- Tech: Python, Tensorflow/Keras, Deep Learning, Computer Vision.

Variational Auto-encoder Performance evaluation (Deep Learning)

- Processed 1 GB of face data-set and implemented generative VAE algorithm for face generation and interpret ability of model.
- Optimized algorithm for stability and high quality image generation.
- Tech: Python, Tensorflow/Keras, Variational Auto-encoder.

Breast Cancer Prediction API (Data Science)

- Conceptualized and implemented machine learning algorithm with 97% accuracy rate to predict breast cancer.
- Built API using implemented model, Flask, HTML and CSS. Deployed on Heroku server.
- Tech: Python, XGBOOST,Scikit-learn,Flask, Heroku.

Web deployed dashboard (Data Visualization)

- Created visually appealing text sentiment dashboard for US airlines customer review.
- Dashboard was created using Python and Stream-lit. Web application made live using Heroku server.
- Tech: Python, Stream-lit and Heroku.