Sai Varun Teja Mudumba

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SUMMARY

Efficient professional with 2+ years of experience and a proven knowledge of analytics, data mining, statistics and programming. Passionate about drawing out hidden insights in the most visually compelling way. Certified **AWS Solutions Architect**.

EDUCATION

Master's in Data Science, GPA: 3.9/4.0

University of North Texas, Denton, Texas   December 2019

Bachelor of Electronics and Communications Engineering, GPA: 3.8/4.0

Jawaharlal Nehru Technological University, Hyderabad, India   May 2017

EXPERIENCE

Software Engineer   **Capital One**   Mar 2020 – Present
- Worked as a Notebook One Developer creating python packages such as Blacklist Checker (to scan tokens), Email functionality and Notebook Scheduling (to run notebooks at a specific given time).
- Implemented the Lambda function, performing an Offline Scan of all the notebooks and check for the blacklisted tokens and worked on the Notebook Transfer API which helps in transferring notebooks between users.

Data Science Intern   **Amigos Library Services**   Sep 2019 – Dec 2019
- Designed a SQL database integrated from the different tables related to the company with normalizations. And used python to extract data and perform real time stream analytics
- Performed Data Analysis, Cleaning and built Machine Learning Models to predict their target variable.
- Created Interactive Visualization System to create dynamic charts given some filters.

Data Engineer Intern   **Data Marshall**   May 2019 - Aug 2019
- Extracted the company related tickets data from the MySQL server using SQL Alchemy a Python SQL toolkit to extract the database.
- Designed a Machine Learning Model which automates the Classification of Tickets and Priority of the Tickets.

TECHNICAL SKILLS

Programming Languages:	C, Java, Python, JavaScript
Databases and Ecosystems:	AWS, MySQL, MongoDB, PySpark, Hive, HDFS, YARN
Web Technologies:	HTML5, CSS, Bootstrap, Rest API
Machine Learning:	Supervised Learning, Unsupervised Learning, Neural Networks, NLP.
Tools:	Tableau, Rapid Miner, SAS Enterprise Miner, Microsoft Office, Git, Visual Studio.

ACADEMIC PROJECTS

Waze Traffic Analysis for Accident Prediction

Tools and Environment: Python, Neural Networks, Keras.
- The main objective of the application is to predict accidents based on the previous incidents on the same road.
- Developed a Sequential Model with Embedding and LSTM layers to predict the occurrence of the Accidents.
- Developed the Sequence generator script which gives us the sequences by applying radial and time filters.

Recommender System using User Query

Tools and Environment: Python, NLP.
- Developed a Recommender System which provides recommendations based on the user query.
- Applied the NLP (TF-IDF, Word2vec) and the concept of Cosine Similarity between the User Query and the word vectors to produce the best recommendations and used the Stars criteria to sort them before displaying them to the Users.

Airbnb – Price Prediction

Tools and Environment: Python, Scikit Learn, Tableau.
- Developed a Machine Learning Model to predict the Prices of the property listings in the Airbnb.
- Used Multivariate Regression and Gradient Boosting Regression for the model building after treating the data with Imputation and Categorical Encoding.