Ram Vegiraju

Data Scientist & Machine Learning Engineer



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SKILLS

PROGRAMMING: Python, R, Java, Javascript, HTML/CSS, Bash

DATA ANALYSIS: SAS, SQL, STATA, SPSS, MATLAB

DATA VISUALIZATION: Tableau, Power BI

ML: MLR, Logistic Regression, LDA, Lasso/Ridge Regression, KNN, Random Forest, SVM, K Means Clustering, PCA, Recommender Systems

Deep Learning: ANN, CNN, RNN/LSTM, Autoencoder, GANs

FRAMEWORKS/TOOLS: Tensorflow, Keras, PyTorch, Scikit-Learn, ReactJS, Flask, AWS, Spark

CERTIFICATES

AWS Cloud Practitioner (01/2020 - 01/2023)

CITI Certification (06/2019 - 06/2021)

EDUCATION

B.A Statistics (Biostatistics Concentration) & Mathematics, GPA: 3.5 University of Virginia

09/2017 - 12/2020

Charlottesville, VA

Alexandria VA

Courses:

- Machine Learning, Linear Algebra, Mathematical Statistics & Probability, Data Analysis with Python, Software Development Methods (Java), Data Science with R, Organic Chemistry, Statistics for Biologists
- UDEMY/LinkedIn Learning: Python for Computer Vision OpenCV, NLP with Python, Python for Data Structures & Algorithms, Tensorflow 2.0: Deep Learning & Artificial Intelligence, The Complete SQL Bootcamp

WORK EXPERIENCE

Software Engineer Intern (R&D)

Amazon

06/2020 - 08/2020

Achievements/Tasks

- Objective: Created and presented a full-stack serverless application deployed on AWS CloudFormation that
 provides neural machine translation for client. Had weekly demos and presentations to demonstrate product to
 client
- React/Javascript: Utilized AWS Amplify to create a front-end dashboard with authentication through AWS
 Cognito that processes client inputs and accesses a REST API created through Amazon API Gateway.
- Python/BackEnd: Developed AWS Lambda functions triggered off of API calls that query and store inputs in AWS S3 encrypted with AWS KMS keys. Translate inputs through accessing both AWS Translate and AWS Sagemaker Endpoint for custom model to return translated output to the front-end.
- NLP/ML: Preprocessing and tokenization of data through the use of NLTK and Transformers libraries.
 Developed, trained, and tuned a custom seq2seq model with encoder-decoder architecture on AWS SageMaker.

Data Science Intern

American Society of Clinical Oncology

06/2019 - 08/2019

Achievements/Tasks

- Objective: Transferred data of patients and forms from over 110 registered sites from Syapse to a new platform in Rave EDC.
- **SAS/SQL**: Utilized Macro language and PROC SQL queries to develop a program that parses through Syapse patient and drug data to create forms ensuring successful migration into the new data platform.
- ML: Developed and conducted logistic regression and discriminant analysis testing to evaluate factors of reenrollment of patients in TAPUR cohorts.
- Protocol Team: Communicated with the Data and Protocol Teams in agile meetings to understand the workflow of patient and drug forms in the Healthcare Industry and earned a CITI certification.

PERSONAL PROJECTS

PlaylistGenerator-Recommender System (08/2020)

- Objective: Created a web application that curates playlists for user based off of favorite genres/mood, artists, and playlist size
- **KNN**: Scraped data using Spotify API, developed a content-based Recommender System to evaluate user inputs.
- □ Flask: Developed a REST API on the backend to process user inputs and feed the loaded model for inference.
- ReactJS/HTML/CSS: Made a front-end for users to easily input features that the model is evaluating.

COVID-19 Forecasting Dashboard- Time Series (03/2020)

- Objective: Developed an informative web application that forecasts and compares the growth of COVID-19 compared to other pandemics utilizing deep learning with Time-Series data.
- □ Javascript/HTML/CSS: Created a front-end dashboard to host ML model results and visualizations made through Plotly.
- **Tensorflow/Keras**: Developed a time-series model using a RNN/LSTM to forecast cases.
- SARIMA: Utilized Facebook's Prophet Library and Statsmodels package to develop a forecasting model for comparision of results.