Jayachandra reddy Kamineni

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EDUCATION:

Master of Science in Information Technology- Data Science concentration May 2019
UNC Charlotte, Charlotte, NC **GPA 4.0/4.0**

RELEVANT SKILLS:

Python, R, Tableau, SQL, NoSQL, SAS, SPSS, Java, Node js, MySQL, NumPy, Pandas, stats models, scikit-learn, Matplotlib, GraphLab, NLTK, TensorFlow, Caffe, PyTorch, H2O, CNTK, OpenCV, Keras, LSTM, CNN, RNN, GRU, Hadoop, Spark, Scala, Redshift, PySpark, SparkML, Apache Hive, MapReduce, Flask.

PROFESSIONAL EXPERIENCE:

Data Scientist **June 2016 – Dec 2017**
Group Eureka, Delhi, India.
Activity includes working on huge customer data of eCommerce, Pharmaceuticals platforms of Group Eureka to extract the meaningful information, identify trends to derive better business strategies. Worked on developing Customer segmentation models, Customer churn predictive models that helped the company in tailoring better marketing strategies. Worked extensively on developing numerical and statistical models on large data sets. Performed extensive Data preprocessing, Data transformation, Data exploration, Feature engineering, Data visualizations.

RESEARCH & PROJECTS:

DEEP LEARNING FOR GOOGLE STOCK PRICE FORECASTING 10/18
● Goal of the project is to accurately predict Google stock prices given historic data. This is a time series forecasting problem as part of Machine learning course (UNCC). This work has a future scope of automated process of predicting stocks.
● Approched the problem by developing 3 Deep learning architectures LSTM, CNN LSTM, GRU using sliding window approach and compared the results of three models.
● CNN LSTM model tends to work better together. Convolutional layer understands dynamical changes and patterns occurring in current window. LSTM cell on top of CNN works best in predicting future instances using previous lags.

DATA VISUALIZATION PROJECT 09/18
● Performed Extensive Data visualization and Data manipulation on Housing Data of king county and Adult census income data.
● Visualized Descriptive statistics which showed clear correlation and distribution of the variables.
Project Link: https://github.com/jayachandrareddykamineni/Data-visualization

HOME CREDIT DEFAULT RISK 08/18
● Motive of the project is to predict how capable each applicant is of repaying loan that solves major business problem of financial services.
● Processed and combined data sets for analysis from diverse sources and Performed extensive data cleaning, feature engineering operations and developed model using LightGBM classifier with optimal parameters which achieved 0.76 AUC score.
Project Link: https://github.com/jayachandrareddykamineni/Home-Default-Risk

CLASSIFICATION ANALYSIS ON ADULT CENCUS INCOME DATA 10/18
● Goal of the project is to accurately predict whether someone is making more than 50000$/year based on given features.
● Performed Data visualization, Data preprocessing and developed Pocket Algorithm, Quadratic discriminant analysis (QDA), Linear discriminant analysis (LDA), Logistic Regression models. Compared the accuracy of four models and QDA turned out be the best model for this problem with AUC score of 0.74. Developed all the algorithms from scratch without using any libraries.
Project Link: https://github.com/jayachandrareddykamineni/Classification-Analysis-on-Adult-cencus-income-data

OTHER DATA SCIENCE PORTFOLIO PROJECTS:

REINFORCEMENT LEARNING BASED ONE CARD POKER BOT 10/18
MOVIE REVIEW SENTIMENT ANALYSIS (ROTTEN TOMATOES) USING KERAS, LSTM 08/18
RECOMMENDER SYSTEM BASED ON COLLABORATIVE FILTERING ALGORITHM 05/17