Viral Pandey

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EDUCATION

Northeastern University, Boston, MA   Sep 2018 - Dec 2020
*Khoury College of Computer Sciences | Master of Science in Data Science | **GPA**: 3.889/4.0*

Teaching Assistant: Machine Learning, Data Management and Processing, Programming with Data
Relevant Coursework: Causal Inference, Deep Learning, Foundations of AI, Algorithms

Dhirubhai Ambani Institute of Information and Communication Technology, India   Aug 2014 - May 2018
Bachelor of Technology in Information and Communication Technology

Relevant Coursework: Database Management System, Stochastic Simulation, Models of Computation, OOP, Data Structures
Activities & Societies: Google Developers Group, DAIICT Chapter and YouthRun (Annual techno-cultural fest) organizing committee member

TECHNICAL KNOWLEDGE

- **Languages**:   Python, R, SQL, Java, MATLAB, C, C++
- **Libraries**:   Pandas, Scikit-Learn, TensorFlow, Keras, Matplotlib, Numpy, Pytorch, Pyro, OpenCV, H3
- **Databases**:   MySQL, Postgres, SQL Server
- **Technologies**:   Google Cloud Platform, GitHub, IntelliJ, Visual Studio, PGAdmin, Hive, RStudio, Jupyter, Google Colab

WORK EXPERIENCE

Tesla, Inc., Palo Alto, CA   Aug - Dec 2019, May 2020 - Present
Data Scientist Intern with Charging Data and Modeling (CDM) Team

- Forecasted the total revenue generated from the Tesla's Global Superchargers Network using Time Series Data that helps the finance team in making important business decisions
- Designed and executed a KPI from start to end on determining the charging network's global coverage of roads using Uber's H3 library on geospatial data
- Quantified the Network's Population Coverage across the globe using Geo-spatial data of population density per pixel of the world and isochronic coverage of sites. This influences the Press team and the Operations Team in building new sites

Khoury College, Boston, MA   Jul 2019
Research Assistant

- Explored Procedure Learning problem of understanding the constituting key actions of complex tasks from instructional video data
- Assembled a Fully Convolutional Sequential Network (FCSN) that produces a compact summary of the procedure steps and their ordering needed to perform a complex task, as well as localization of these steps in videos

Dhirubhai Ambani Institute of Information and Communication Technology, India   Jan - Apr 2018
Data Science Research Intern

- Outperformed other algorithms in forecasting Remaining Useful Life of a jet engine based on NASA's time series dataset by developing a Recurrent Convolutional Neural Network (RCNN) based predictive model

Infoware, India   May - July 2017
Data Engineering Intern

- Implemented Hadoop infrastructure and used Hive on historical data of client's customers across different sales channels

PROJECTS

Quora Insincere Question Classification   Jan - Mar 2019

- Designed a supervised binary classifier to detect insincere questions on the Quora website and compared performances of algorithms such as SVM, CNN and LSTM RNN
- Performed TF-IDF vectorization, Sentiment Analysis using Python NLTK framework for gauging overall sentiment

Bankruptcy Prediction Using Various Classifiers   Jan - Mar 2019

- Tested Logistic Regression, Naive Bayes, LDA, QDA, SVM and feed forward Neural Networks on 5 years of Polish Companies Data of different econometric ratios to determine whether a company is going to go bankrupt
- Handled missing data using Mean value Imputation and SMOTE on training data to handle class imbalance
- Calculated Correlation matrix, performed PCA and cross validation for feature sub-setting

ADDITIONAL EXPERIENCE

- Participated in multiple hackathons like **IBM - State Street Hackathon** and **AT&T Entertainment Hackathon** to develop apps using technologies like IBM Watson Vision Recognition, Node-RED, Azure Face API, Heroku and Spotify API