

EDUCATION

Northeastern University <i>Master of Science in Data Science</i> GPA: 3.9/4.0 Graduate Teaching Assistant: Machine Learning, Data Management and Processing, Programming with Data Relevant Coursework: Causal Inference, Deep Learning, Foundations of AI, Algorithms	Sep 2018 - Dec 2020 Boston, MA
Dhirubhai Ambani Institute of Information and Communication Technology <i>Bachelor of Technology in Information and Communication Technology</i>	Aug 2014 - May 2018 India

TECHNICAL KNOWLEDGE

Languages:	Python, R, SQL, Java, MATLAB, C, C++
Libraries:	Pandas, Scikit-Learn, TensorFlow, Keras, Plotly, Matplotlib, Numpy, Pytorch, Pyro, OpenCV, H3, Geopandas
Statistical Methods:	Time series forecasting, Hypothesis testing, Classification, Clustering, Regression Analysis, A/B test, NLP
Technologies:	Airflow, Git, Jira, Hive, RStudio, Jupyter, Tableau, Power BI, Apache Superset

WORK EXPERIENCE

Tesla <i>Data Scientist Intern</i> <ul style="list-style-type: none">Developed supervised regression models to predict congestion and determine the capacity expansion of Supercharger sitesBuilt data pipelines to convert vector data of public roads into Uber's H3 hexagons. This helped me design and put Traffic Coverage and Road Coverage KPIs into productionIdentified vehicles that might be involved in potential misuse of the Supercharger network. Proposed false positive scenarios as well as solutions to mitigate such incidents	May - Aug 2020 Palo Alto, CA
Tesla <i>Data Scientist Intern</i> <ul style="list-style-type: none">Designed a time series forecasting model to estimate quarterly energy usage at sites. This informed the estimation of \$ revenue from the entire Supercharger network for future quartersQuantified the population coverage of the world using geo-spatial data of population density per pixel of the world and isochrone coverage (areas within some minutes by driving) of sites	Aug - Dec 2019 Palo Alto, CA
Northeastern University <i>Research Assistant</i> <ul style="list-style-type: none">Explored Procedure Learning to understand the constituting key actions of complex tasks from instructional video dataAssembled 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	Jul 2019 Boston, MA
Dhirubhai Ambani Institute of Information and Communication Technology <i>Data Science Research Intern</i> <ul style="list-style-type: none">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	Jan - Apr 2018 India

PROJECTS

Named Entity Recognition (NER) and Relation Extraction (RE) from Patient's Medical Notes <ul style="list-style-type: none">Highlighted entities like Drugs, Adverse effect, Dosage, Reason, etc and mapped the Drug entity with all other entities to create a structured data table out of unstructured notesAchieved 90% micro-F1 score for NER and RE using BioBERT and BiLSTM+CRF modelsBuilt a website and APIs to get model predictions using FastAPI and hosted them on Google Cloud Platform	Sep - Nov 2020
Quora Insincere Question Classification <ul style="list-style-type: none">Designed a supervised binary classifier to detect insincere content on the Quora website and compared performances of algorithms such as SVM, CNN and LSTM RNNPerformed TF-IDF vectorization, Sentiment Analysis using Python NLTK framework for gauging overall sentiment	Jan - Mar 2019
Bankruptcy Prediction Using Various Classifiers <ul style="list-style-type: none">Fit Logistic Regression, Naive Bayes, LDA, QDA, SVM and feed forward Neural Networks on 5 years of Polish Companies Dataset containing 64 econometric ratios and bankruptcy labelsHandled missing data using Mean value Imputation and class imbalance in training data using SMOTECalculated Correlation matrix, performed Cross-validation for feature sub-setting and hyperparameter tuning	Jan - Mar 2019