

## EDUCATION

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

## TECHNICAL KNOWLEDGE

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

## WORK EXPERIENCE

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<b>nference</b> <i>Data Scientist</i>	March 2021 - Present Cambridge, MA
<ul style="list-style-type: none"><li>Co-authored a publication that studies the correlation of Cerebral venous sinus thrombosis (CVST) with COVID-19 vaccines in a large multi-state US health system <a href="https://doi.org/10.1101/2021.04.20.21255806">https://doi.org/10.1101/2021.04.20.21255806</a></li><li>Developed SDK for users to programmatically interface with various nferX APIs and implement use cases that are not possible using the nferX UI.</li></ul>	
<b>Tesla</b> <i>Data Scientist Intern</i>	May - Aug 2020 Palo Alto, CA
<ul style="list-style-type: none"><li>Developed supervised regression models to predict congestion and determine the capacity expansion of Supercharger sites</li><li>Built 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 production</li><li>Identified vehicles that might be involved in potential misuse of the Supercharger network. Proposed false positive scenarios as well as solutions to mitigate such incidents</li></ul>	
<b>Tesla</b> <i>Data Scientist Intern</i>	Aug - Dec 2019 Palo Alto, CA
<ul style="list-style-type: none"><li>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 quarters</li><li>Quantified 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</li></ul>	
<b>Northeastern University</b> <i>Research Assistant</i>	Jul 2019 Boston, MA
<ul style="list-style-type: none"><li>Explored Procedure Learning to understand the constituting key actions of complex tasks from instructional video data</li><li>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</li></ul>	
<b>Dhirubhai Ambani Institute of Information and Communication Technology</b> <i>Data Science Research Intern</i>	Jan - Apr 2018 India
<ul style="list-style-type: none"><li>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</li></ul>	

## PROJECTS

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<b>Named Entity Recognition (NER) and Relation Extraction (RE) from Patient's Medical Notes</b>	Sep - Nov 2020
<ul style="list-style-type: none"><li>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 notes</li><li>Achieved 90% micro-F1 score for NER and RE using BioBERT and BiLSTM+CRF models</li><li>Built a <a href="#">website</a> and APIs to get model predictions using FastAPI and hosted them on Google Cloud Platform</li></ul>	
<b>Quora Insincere Question Classification</b>	Jan - Mar 2019
<ul style="list-style-type: none"><li>Designed a supervised binary classifier to detect insincere content on the Quora website and compared performances of algorithms such as SVM, CNN and LSTM RNN</li><li>Performed TF-IDF vectorization, Sentiment Analysis using Python NLTK framework for gauging overall sentiment</li></ul>	