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**Education**

**Northeastern University,** Boston, MA **Jan 2017– May 2019**

*Master of Science, Data Science* – GPA: 3.5/4.0

*Coursework:* Natural Language Processing, Supervised & Unsupervised Machine Learning, Applied Probability & Stochastic Processes, Computer Vision, Information Visualization, Text Mining, Science of Science (Research)

**Government Engineering College,** Thrissur, Kerala **Sep 2007 – June 2011**

*Bachelor of Technology, Computer Science*

*Coursework:* Data Structures and Algorithms, Database Systems, Numerical Analysis and Optimization Methods

**Technical Skills**

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| **Specialties:** | Predictive Modeling, NLP, Deep Learning, Distributed Computing, Data Visualization |
| **Machine Learning:** | Tensorflow, PyTorch, Scikit-Learn, Pandas, NumPy, MatPlotlib, Plotly |
| **Programming:** | Python, C++, R, Bash, Java, Javascript |
| **Big Data:** | Apache Spark, Mllib, Hadoop, Hive, Sqoop |
| **Databases:** | MySQL, Vertica |
| **Other Skills:** | Google Cloud, Tableau, D3.js, Linux |

**Professional Experience**

**Centre For Complex Networks Research**, *Research*, Boston, MA **Jan 2019 – Present**

* Built quantitative models to estimate the influence of title lengths of scientific articles on their popularity.
* Estimated the temporal interdisciplinary novelty in scientific publications as a function of occurrence of new words in their titles.

**Fidelity Investments**, *Data Scientist Co-op,* Boston, MA. **Jan 2018 – Jul 2018**

* Developed anomaly detection predictive models, visualizations to analyse abnormal network traffic activities.
* Built exploratory data analysis framework for network log analysis on PySpark.
* Designed probabilistic models for classifying files containing potential threats and achieved a recall of 0.88.
* Created intuitive visualizations (Matplotlib/Plotly) and presented visual stories to executive management.

**247 AI,** *Senior Data Engineer,* India **May 2015 – Dec 2016**

* Modelled chat transcript data to predict intent of customer care calls and re-route them to the concerned agent. Achieved a recall of 0.86 for the model.
* Designed and developed a Natural Language Toolkit for chat transcript data exploration and modeling.
* Configured the toolkit on a multi-cluster environment with three Spark nodes for scalability.
* Built a model to predict chat propensity of customers with agents based on their website behaviour data.
* Deployed propensity models in production using Javascript &integrated it on customer engagement platform.
* Integrated SVM and Random Forest algorithms as Vertica R UDF and scaled them on multiple nodes.

**Xurmo Technologies,** *Software Engineer - Analytics,* India **July 2011 – May 2015**

* Built custom analytical functions for data transformation as Apache Hive function extensions.
* Programmed analytics applications using Platform as a Service REST APIs – Text exploration engine, Stock market movement prediction, Sentiment analyzer and Customer churn prediction.

**Projects**

* **Investigating Instances of Gun Violence using Pointer Networks:** Extracted attributes of gun violence events using Attention Mechanism and Pointer Neural Nets (Tensorflow) from news reports.
* **Quantifying Semantic Similarity:** Designed and implemented LSTM network for classifying semantically similar and dissimilar questions from Quora, and tuned it to an accuracy of 83%.
* **Fake News Stance Classification:** Tuned and achieved 88% accuracy in classifying fake news from genuine ones. Random Forest, XGBoost and SVM algorithms were used for performance comparison.
* **Sales Time Series Forecasting:** Forecasted the sales fluctuations of 10 stores using a supervised regression approach with ARIMA and XGBoost and contrasted it with LSTM (PyTorch) Multi-step Time Series Forecasting.