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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, Time Series Analysis, NLP, Deep Learning, 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:** | AWS, Google Cloud, Distributed Computing, Tableau, D3.js, Linux |

**Professional Experience**

**Citizens Bank**, *Data Scientist*, Johnston, RI **Jul 2019 – Present**

* Develop time series models to forecast the inflow and outflow of cash in the accounts of medium-sized business clients of Citizens Bank and provide recommendations on investment opportunities.
* Build a cash forecasting framework that does automatic algorithm selection and parameter tuning for the time series modeling process and deploy the solution using AWS Sagemaker and Lambda.

**Centre for Complex Networks Research**, *Research*, Boston, MA **Jan 2019 – Jul 2019**

* 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 the occurrence of new words in their titles.
* Characterized the fluctuations in word usage in subsequent years with different distributions to identify the words whose usage is increasing or decreasing more than by noise.

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

* Developed anomaly detection predictive models, visualizations to analyze 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 using Matplotlib and presented visual stories to executive management.

**[24]7.ai,** *Senior Data Scientist / Engineer,* India **May 2015 – Dec 2016**

* Modeled chat transcript data to predict the 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.
* Developed models to predict the chat propensity of customers with agents based on their website behavior data.
* Deployed propensity models in production using Javascript &integrated it on the customer engagement platform.
* Integrated SVM and Random Forest algorithms as Vertica R UDFs and scaled them on multiple nodes.

**Xurmo Technologies,** *Software Engineer - Analytics,* India **Jul 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 analysis, and customer churn prediction.