Varun Tulasi

Data Science / NLP Specialist

An entry-level or junior data scientist with intellectual curiosity and business acumen for turning problems into high quality solutions and actionable results. My passion for data is informed by studies in Applied Math and Statistics, Big Data, Economics and Computational Linguistics. Lot of experience in teaching complicated concepts in a simple way and internship experience in machine learning, data visualization, wrangling and sentiment analysis. Skilled in deep learning, NLP, statistics, machine learning, problem solving, and programming.

Personal Info

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GitHub
https://github.com/varuntulasi

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Skills

Advanced Modeling: Deep learning (CNNs, RNNs, LSTMs), SVMs, Random Forest, k-NN's, LDA, Clustering (k-means, Agglomerative heirarchical), Dimentionality Reduction (SVD, PCA).

Python: Pytorch, Keras with TensorFlow, NLTK, Scikit Learn, Scipy, NumPy, Pandas, Altair, Matplotlib, Seaborn.

SAS, R (Tidyverse, Broom, ggplot) and **Databases** (Relational database design, MySQL, MongoDB).

Projects (on GitHub)

2020-02
A Sentiment Analysis of Big Tech: Sentiment analysis of Facebook, Microsoft, Apple and Amazon by collecting English and French language tweets and Chinese Weibo posts. Used tweepy, BeautifulSoup, Pandas, Altair, HTML, CSS and Javascript

2018-09
Data Cleaning and Exploration of Airbnb Listing data: Cleaning and exploring Airbnb Listing Data (from csv file) using Python, Pandas, Matplotlib, Seaborn and Numpy

2017-12
Is Market Liquidity Reducing? A Preliminary Case Study of US Treasuries (Advisor: Prof Gabriel Mihalache): Bachelor's degree Economics Honors project. Used Data visualization and Regression in R to evaluate the impact of new regulations post 2008 crisis on US bond market

Education

2019-09 - 2020-06	**Master of Data Science in Computational Linguistics** **University of British Columbia (UBC) - Vancouver (Graduating in June 2020)** Relevant courses: Supervised and Unsupervised Learning, Data Wrangling, Data Visualization, Sentiment Analysis, Semantic Analysis and Regression Full course list: https://masterdatascience.ubc.ca/programs/computational-linguistics
2018-04 - 2018-10	**SAS Institute, SAS Academy for Data Science** **SAS Certified Big Data Professional** certificate https://www.youracclaim.com/badges/73318046-8dfc-45b6-bda1-6317f0d99396/public_url. Learned SAS programming, SAS Visual Analytics, Dataflux Data Management Studio, Hadoop and HIVE
2013-09 - 2017-12	**Stony Brook University, NY (Cum Laude, 3.6 GPA / 4.0)** **State University of New York (SUNY) at Stony Brook** • B.S in Applied Math and Statistics (AMS) • B.A. Honors in Economics • Minor in Mathematics

Experience

2019-02 - 2019-05	**Data Management and Analytics Intern** *Niti Aayog (Planning Commission, Government of India)* Worked on the project relating sustainable developmental goals and Vision 2030 document of Niti Aayog, advisory body of the Government of India. Improved the quality of data used in the project by using identification analysis, standardization, data enrichment and parsing in the DataFlux Data Management Studio and created interactive visualizations for the project using SAS Visual Analytics.
2018-06 - 2018-08	**Summer Intern** *Livemint Financial daily newspaper* Performed sentiment analysis of the reaction of people on twitter within one month of the introduction of Demonitization (withdrawal of 500 rupee bank notes) in late 2016 and the Goods and Service Tax (GST) in 2017 by using Python, tweepy, VADER SentimentIntensityAnalyzer and Pandas.
2017-06 - 2017-08	**Projects Officer - Intern** *International Monetary Fund (IMF) at Washington DC* Under the guidance of the then Executive Director Dr Subir Gokarn at IMF • Performed data mining, data visualization and analysis of a time series data on cash and non-cash transactions to assess the state of digital payments system when the withdrawal of specified bank notes was implemented in India in 2016 using Python. • Worked on a research paper on comparative levels of financial inclusion in South Asia by collecting and cleaning data from IMF FAS, and Intermedia survey using R.
2016-09 - 2017-12	**Math and Economics Tutor** *Stony Brook University* Taught Calculus 1, statistical analysis using SAS and R, and, econometrics in Fall 16, Spring 17 and Fall 17. Learned organization skills from teaching multiple courses to 15-20 students and the ability to explain complicated concepts in a simple way with the patience to repeat it multiple times.