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## Summary

- Graduate student at College of Computing and Informatics, Drexel University. Highly skilled in using statistical analysis, SSDD tools, data pre-processing, data mining and NLP algorithms, and working with database management to solve business problems. Experienced in networking; TCP/IP and socket programming. Proficient in Python, SQL and C++. Actively looking for full-time Data Scientist/ Analyst roles..

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## Education

**M.S. in Computer Science | Drexel University | Philadelphia, PA** (Graduation: *December 2021*)

- Minor: Machine Learning and Distributed Programming

**M.S. in Data Science | Drexel University | Philadelphia, PA** *September 2020*

- Minor: Machine Learning

**B.S. in Computer Science | VTU | Bangalore, KA, India** *June 2018*

- Minor: Database Management

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## Technical Skills

- Programming languages: Python, SQL (PL/SQL), C++, HTML, JavaScript, Scheme, Haskell, Matlab
- Machine Learning: Supervised Learning (Regression-Linear, Ridge, Lasso, Logistic | Decision Trees | SVM | Neural Networks | Random Forest | Gradient Boosting, XGBoost), Unsupervised Learning (K-Means | Hierarchical Clustering | Dimensionality Reduction | PCA | Cluster Analysis | Anomaly Detection), ANOVA, Market Basket Analysis, A/B and hypothesis testing, ARIMA, NLP: Text mining, Sentiment Analysis
- Data Analysis: Tableau, Power BI, Proficient in writing code (SQL and python) and using Big Data technologies (Hadoop, Spark ML, HDFS) to assess, clean, validate and analyze large datasets, SSDD: SSIS, SSRS, Expert knowledge of MS Excel; Proficiency in MS Access, MS Word

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## Academic Projects

### Stock Prediction using NLP and Covid-19 data

- Used NLP to predict stock prices of Microsoft, Apple, Facebook and Amazon with a r2 score of 0.72, 10% better than average stock prediction projects.
- Features used were derived using over 10 years' worth of news data related to the 4 companies and world events (focused on the pandemic), previous stock data and Google trends data.
- Data acquisition, preprocessing and Predictive modelling was carried out using SSDD tools on Google Cloud Platform. EDA was carried out using python, Tableau and Power BI.
- News data was converted into sentiment scores using NLP. 14 features were used to predict the stock prices using LSTM, Linear Regression and Support Vector Regression algorithms.

### Forecasting Confirmed Cases and Fatalities of Covid-19

- Forecasted confirmed cases and fatalities of Covid-19 using travel pattern and Google Trends data provided by John Hopkin's University.
- Used Linear Regression, Random Forest Regression and Decision Tree Regression algorithms to achieve a r2 score of 0.85 and RMSE of 2.36.
- Pipeline was created on Spark. Tableau, Pyspark, Spark SQL Spark ML were used in various stages of the project.

### Analyzing the conditions contributing to Covid-19 Deaths

- Combined a CDC Covid-19 dataset and a public health dataset to study the effects of statewide features such poverty and literacy rates (among other features), medical conditions, age groups and mask mandate on Covid-19 fatalities.
- Used python, Tableau and Weka to explore patterns and see how each of the features lined up in contributing to Covid-19 fatalities.
- Performed feature selection and used the features to forecast Covid-19 fatalities with an r2 score of 0.78 and mean absolute error of 0.3. Algorithms used: Linear regression, Support vector regressor, Random Forest and decision tree regressor.

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## Work Experience

**Teaching Assistant | Drexel University | Philadelphia, PA** *January 2021 to Present*

- Courses: Data acquisition and pre-processing (DSCI 511) and Intro to Data Analytics (INFO 659)

**Associate Event Manager | Hash Connect | Bangalore, KA, India** *January 2016 to June 2018*

- Assisted in conducting recruiting events for top MNCs at Bagmane Tech Park.
- Responsibilities included advertising events, registering applicants, coordinating with company recruiters to identify suitable candidates.