SRIKRISHNA SRIDHAR

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EDUCATION

Indiana University Bloomington	MS- Data Science	GPA: 3.61/4	Aug 2017- May 2019
Anna University	BE- Electrical &Electronics	GPA: 8.0/10	Aug 2011- May 2015

TECHNICAL SKILLS

Languages: Python, R, SQL
Others: Spark, Unix, PostgreSQL, HDFS, MapReduce, Tableau, Hadoop, Git, JIRA, Jupiter Notebook
Toolkits: numpy,pandas,Matplotlib,ggplot2,SciPy,Scikit-learn,NLTK,OpenNLP,SparkML,re,Tidyverse,Word2Vec
Machine Learning: ARIMA, Decision tree, NLP, Regression, Clustering, Classification, Neural network, t-sne,PCA

PROFESSIONAL EXPERIENCE

Data Scientist Intern **Jun 2018–Aug 2018**
Domtar Personal Care

- Improved prediction accuracy by 12% using new features created with holidays, outages and transition between different grades of pulp and paper.
- Reduced inventory costs by 10% using Time Series ARIMA and Linear regression to predict the daily, weekly, bi-weekly, monthly and annual production of pulp and paper.
- Reduced production costs of Pulp by 15% by developing a strategy to vary production of Pulp by month.
- Designed business intuitive dashboards for prediction results to help sales team improve sales.
- Developed reports to explain trends in production of pulp and paper to a non-technical audience.

System Engineer/Analyst(Banking and Telecommunication domains) **May 2017-July 2017**
TCS Ltd

- Worked on settling of trades for a Fortune 32 company after successful purchase of stocks.
- Created a system to alert clients about problems in the purchase of stock trades.
- Generated reports to identify defaulters in payment for a Fortune 130 Telecom giant.
- Monitored billing cycles and alerted customers on due dates and pending payments.

PROJECTS

Movie rating recommendation system using collaborative filtering in *Python* **Apr 2018**

- Designed algorithms based on gender and movie genre to predict the movie ratings for 10million users
- Predicted the movie ratings of targets using top 50 similar users and achieved 80% accuracy

Restaurant Annual Revenue Prediction in *Python* [Kaggle Top 5%](Team of 3) **Mar 2018–Apr 2018**

- Predicted the revenue of 100,000 restaurants in over 50 cities using Gradient boosting, KNN, Linear regression
- Gradient Boosting achieved a Root mean square error of 0.3, indicating very low errors in prediction

Tweet – Location Predictor (32000 tweets) in *Python* [Highest accuracy among 200 students] **Dec 2018**

- Predicted the location from which the tweets were posted using a Naïve Bayes classifier
- Achieved 72.5% accuracy by effectively handling stop words, special characters, and missing words

Stance Detection system on US Airlines Data to analyse the popularity of airlines in *Python* **Mar 2018**

- Extracted tweets from twitter targeting major US airlines and built Random Forest, KNN models
- Classified the sentiment of tweets as positive/negative/neutral and analysed the popularity of airlines

Maps using Artificial Intelligence Search algorithms in *Python* **Sep 2018**

- Designed maps to output the total distance, time and the shortest path between any two cities in the USA
- Built A*, Uniform, BFS, DFS and IDS search algorithms with distance and time measurements as cost functions
- Uniform search algorithm returned the most optimal path between any two cities within 4 seconds

Image Classification on Natural Images Data(Kaggle) using *HDFS* and *Pyspark* **Dec 2018**

- Classified 6899 images using Random forest, Logistic regression and Gradient boosting
  Compared to python, run-time was reduced by 33.3 minutes and achieved 73% accuracy using Random forest

2016 US Presidential election analysis on Election Survey Data(64000 adults) in *R* **Mar 2018**

- Fitted Logistic regression models to understand the switching of votes of 2012 Obama supporters to 2016 Trump supporters based on immigration policies, gender, race, and education