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

Programming Languages: Python, R , SQL, LINUX, Spark
Others: MySQL, MongoDB, Tableau, Micro strategy , Hadoop, GitHub, Twitter API, JIRA, NLP, Data Visualization
Toolkits:numpy,pandas,matplotlib,nltk,scipy,scikit-learn,re,opencv,matplotlib,ggplot ,caret, dplyr,MLLib

PROFESSIONAL EXPERIENCE

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

- Improved prediction accuracy by 12% by creating new features using holidays , outages and transition between different grades of pulp and paper in production data
- Reduced inventory costs by 10% and achieved 90% accuracy using Time Series ARIMA and Linear regression to predict the Daily, Weekly, Bi- Weekly, Monthly and Annual production of Pulp and paper
- Identified trends in sales by analysing the variation of pulp and paper production with holidays
- 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 helping sales team improve sales
- Developed reports to explain trends in production and sales of pulp and paper to a non-technical audience

Software Engineer in Banking and Financial Services **May 2015–July 2017**
TATA Consultancy Services

- Reduced running time of programs by 120 seconds using MIPS reduction (Millions of instructions per second) on critical COBOL programs.
- Implemented FTP-SFTP using JCL to transfer feeds from Mainframe to UNIX environment automatically
- Earned client appreciation by creating an application to uproot manual monitoring by automatically notifying clients via e-mail on successful transfer of feeds from mainframe to Unix environment.

PROJECTS

Movie ratings recommendation system in *Python* **Apr 2018**

- Built a recommendation system using collaborative filtering to predict the ratings of 100k and 10million users
- Designed algorithms based on user's gender and movie genre, from the ratings given by top 50 similar users
- Achieved 80% accuracy in predicting the movie ratings of users

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
- Performed dimensionality reduction using Boruta to select the best features to predict restaurant revenue
- Gradient Boosting achieved Root Mean Square Error of 0.3,thus the overall error in prediction was very less

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

- Designed maps to predict the total distance , time taken and the paths between any two cities in the USA
- Built A*,Uniform, BFS, DFS and IDS search algorithms with distance and time measurements as cost function
- GPS co-ordinates and length of roadway between cities in USA were used as metrics for the algorithms
- Uniform search algorithm returned the most optimal path between any two cities, within 4 seconds

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

- Implemented Random Forest, Logistic Regression and Gradient Boosting to compare performance with Python
- Classified 6899 images from different categories like Airplane, Car, Cat, Dog, Flower, Fruit, Motorbike, Person
- Run-time was reduced by 2000 seconds and 73% accuracy was achieved using Random Forest

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

- Predicted the location from which 32000 tweets were posted using a Naïve Bayes classifier
- Achieved 72.5% accuracy by effectively handling stop words, special characters and missing words

2016 US Presidential election analysis on Election Survey Data in *R* **Mar 2018**

- Fitted Logistic regression models on the post-election survey response of 64000 adults
- Studied the interaction of answers to immigration questions with gender, race and education
- Analysed the models to understand the switching of supporters between Barack Obama and Donald Trump