Ritesh Singh Suhag

Austin, TX

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Data Scientist focused on executing data-driven solutions. Experienced at creating predictive models and analyzing raw data to deliver insights and implement action-oriented solutions to complex business problems.

EDUCATION

Texas A&M University, Mays Business School — **College Station, Texas**
Master of Science in Management Information Systems — GPA: 3.9/4.0 — **May 2021**

Manipal Institute of Technology — **Manipal, India**
Bachelor of Technology in Electrical and Electronics — GPA: 3.51/4.0 — **May 2018**

EXPERIENCE

Dell Technologies | ***Senior Analyst, Command Center*** — **Round Rock, Texas, Jun 2021 – Present**

- Assisted with development, maintenance and monitoring of RPA process to help save more than **4000+ man hours**
- Responsible for the development of intelligent automation solution using **python and automation anywhere** platform to automate task creation in **2000+ work orders** everyday
- Collaborated with business and technology stakeholders to collect information on business process and requirements

Dell Technologies | ***Data Science Intern*** — **Round Rock, Texas, Jun 2020 – Jul 2020**

- Applied **Natural Language Processing** (**NLP**), Latent Dirichlet Allocation, to **9 million vendor records** resulting in better understanding of customer interactions & need to formulate new guidelines to reduce operational costs
- Automated methodical **text-preprocessing** to produce consistent and streamlined business intelligence results
- Extracted, interpreted, and explored large datasets from disparate sources to calculate key performance metrics (KPI) and identified under-performing geographical states and areas for improvement

Texas A&M University | ***Research Assistant (Data Science)*** — **College Station, Texas, Feb 2020 – May 2021**

- Applied **regression analysis** to isolate and understand key relationships between flight prices and industry factors
- Implemented robust **data pipeline** to transform raw data from **300,000 web-scraped** pages into analysis-ready data
- Modified **data mining** processes using **parallel processing** and **matrix operations**, reduced time needed for **feature engineering** by 60%

Accenture Solutions Pvt. Ltd. | ***Application Development Associate*** — **Mumbai, India, Sep 2018 – May 2019**

- Produced translation of **quantitative analytics** and findings into accessible visuals for non-technical audience using **dashboard reports** which helped increase target met from 67% to 99.5%
- Optimized and redesigned **SQL queries** resulting in 25% reduction in data and report turnaround time
- Collaborated with teams across different regions to formulate the development of **data management and analytical** software increasing **reporting ability** and reducing **operational cost**

PROJECTS

Stock Price Forecasting and News Sentiment Analysis

- Achieved an accuracy of 94% of stock forecasting by training machine learning model (**Artificial Neural Networks**)
- Conceptualized and implemented **sentimental analysis** tool to rate news articles of companies that helped in better recognition of price variation trends and increase accuracy by 2.7%

NBA Tweets Analysis

- Designed complete **web-application** to assist online marketing team by analyzing raw Tweets of NBA teams using **Natural language processing** and **sentiment analysis**
- Researched, prototyped and built basic-NLP section for users to **upload, process and explore text data** using **simple UI**

Australian Airline-Passenger Data

- Analyzed the behavior of monthly passenger travel in Australia and **forecast** for next 3-months using **SARIMAX** to assist business stakeholders make informed decisions utilizing predicted forecast
- Decomposed **time series data** into **seasonality, trends, and residuals** for improved accuracy of forecasting model

DonorChoose.org Application

- Delivered a classifier **prediction model** to anticipate number of days required to get complete funds for project with accuracy of 93% via **k-NN algorithm** (**supervised learning**)
- Evaluated different computations using **map-reduce** and proper structured **aggregates** to improve system response time and created **materialized views** for heavy, frequently used queries

TECHNICAL SKILLS & PUBLICATIONS

Languages: **Python** (NumPy, pandas, scikit-learn, matplotlib, TensorFlow, Keras, matplotlib, NLTK), **R, SQL**, HTML, CSS3, Java, Shell Scripting. **Databases:** MS SQL, Oracle, MySQL, MongoDB, MariaDB, Postgres. **Tools:** R-Studio, Jupyter Notebook, AWS, Github, Tableau, MS Excel, Power-BI, Shiny. **Paper Publication:** "Stock price forecasting and news sentiment analysis model using artificial neural network" at "International Journal of Business Intelligence and Systems Engineering"