DIVYA GARG

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SKILLS & TECHNICAL SUMMARY:

Statistics & Visualization Software: SAS, R Studio, Tableau, Stratifyd, Analytic Solver, Anaconda, Jupyter notebook

Programming Languages: C++, SAS, Oracle, MySQL, R Programming, Python, SAS Enterprise Guide, Linux, Apache Spark

Microsoft Tools/ Cloud: Microsoft Azure, Azure Data Bricks, AutoML, Azure SQL Database/DataWarehouse, PySpark, Azure Storage

ML Libraries: Pandas, NumPy, SciKit Learn, SciPy, Matplotlib, dplyr, ggplot2, gganimate, Rshiny, TensorFlow, Keras, PyTorch

Technical Skills: Data Science, Big Data, Machine Learning, Data Mining, Data Cleaning, Visualization, Deep learning, Business Intelligence, Predictive Modelling/Analytics, Statistics, Text Analysis, Probability, Data Manipulation, A/B Testing, Parallel Computing, Deep Learning and Neural Networks

Statistical Methods: Forecasting, Time series, Hypothesis Testing, Classification, Clustering, Regression Analysis, Machine Learning Algorithms

Soft Skills: Effective Communication, Team Player, Problem Solver, Creative Thinker

EDUCATION:

The University of North Carolina at Charlotte, Charlotte

Master of Science in Data Science and Business Analytics   **May 2020**

 Relevant coursework: Advanced Business Intelligence and Analytics, Decision Modelling via Spreadsheets, Big Data Design, storage and Provenance, Social Media Marketing and Analytics, Consumer Analytics, Big Data in Competitive Advantage, Applied Machine learning, Visual Analytics, Cloud Computing for Data Analysis (Azure Cloud Services)

Kurukshetra University, India   **May 2015**

Bachelor of Technology in Information Technology

Honors: University Rank Holder

EXPERIENCE:

The University of North Carolina at Charlotte   **August 2019-Present**

Graduate Teaching Assistant (Data Science Initiative)

- Appointed as TA for Consumer Analytics Class by Dr. Ashish Sharma (Belk College of Business, UNCC).
- Assisting professor by performing teaching related duties such as developing teaching materials, preparing examinations, conducting lab sessions, mentoring students and grading.

Federal Bank Ltd., India   **July 2015-June 2017**

Data Analyst

- Used statistical methods to analyze data and generate useful business reports.
- Worked with management to create a prioritized list of needs for each business segment.
- Coordinated, created and provided reports to management while manipulating data using R and Python and development on agile environment.
- Assisted in Statistical modelling and data mining techniques for segmenting and better targeting.
- Analyzed disputed transactions for possible fraudulent activities by interpreting trends in data sets.
- Took the initiative to introduce data management on cloud using Pyspark.

ACADEMIC PROJECTS:

Cloud Computing end-to-end project   **Fall 2019**

Created an Azure SQL DB to perform ETL process using SSIS, performed text analysis using cognitive services, created predictive model to predict the house of prices using AutoML tools, then created different models like regression, deep learning models by setting up databricks environment, used(pyspark) machine learning libraries for analysis.

Career Guidance tool

Created a Rshiny app using various packages such as plotly, leaflet, ggplot to see how tuition fee varies from one state to another and compare the cost of education in United States, deployed it on Rshinyapps.io

Health Insurance Marketplace Rates Prediction

The aim of this project was to create **machine learning** models to predict individual rates based on the benefits & plan attributes offered by different issuers across states, also performed rate difference when moving between states. Both Linear and Ensemble models were used.

Predicting Voter Turnout for 2020 Presidential Election in Charlotte   **Spring 2019**

A Data Science Approach was applied to Examine Personal and Environmental Factors and find patterns using **Random Forests, Neural Networks, Time Series analysis** and **Clustering** models using R.

Voter profiling and segmentation to make a candidate win in 2020 Elections: **Fall 2018**
Collaborative project to analyze the past election data and make a candidate victorious based on various factors using **Cluster Analysis** in R. Visualized the results in Tableau.

Social Media Sentiment Analysis for Netflix
Twitter Data (Text data) for different Netflix accounts was acquired over a 28 days period from twitter API using library rtweet in R**.** Multiple Analysis like **Regression analysis, Image analysis, sentiment analysis, cluster analysis, content analysis** was done to target the influential accounts. Stratifyd was used as tool for performing sentiment analysis.

Big Data Analytics for Claims Management
Performed **Exploratory Data Analysis** on 100K claim records and its 2.5 M transaction records. Visualized the results in **Tableau** and created Regression models using SAS Enterprise Guide.

CERTIFICATIONS:
Graduate Certificate in Business Analytics UNCC   **December 2018**
Relevant coursework: Business Intelligence and Analytics, Social Media Marketing and Analytics, Consumer Analytics, Big Data in Competitive Advantage