Srikanth Mungi
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EDUCATION:

Northeastern University, Boston, MA, USA *May 2023*
Master of Science in Data Analytics Engineering
Relevant Courses: Foundations of Data Analytics, Computation and Visualization, Data Mining and Data Management

MVGR College of Engineering, Vizianagaram, India *May 2018*
Bachelor of Technology in Electronics and Communication Engineering
Relevant Courses: Data Structures and Algorithms, Probability & Statistics and MATLAB.

SKILLS:

Programming Languages: Python (Pandas, Numpy, Seaborn, Matplotlib, Pyplot), R (dplyr, ggplot2, caret, plotly), SQL, MATLAB
Databases: MySQL, Oracle, PL/SQL, Neo4j, MongoDB
Machine Learning: Hypothesis Testing, Regression, Random Forest, Classification, Time Series Analysis, Clustering
Visualization Tools: Tableau, PowerBI, Excel
IDE & Tools: Jupyter Notebook, Google Colab

WORK EXPERIENCE:

Application Development Analyst| Accenture Solutions, Pune, India *Jan 2019 - Aug 2021*

- Gathered experience in QA / QC life cycle, End to End Testing, Functional, System Integration, Regression Testing, Formulating Test environment, Test Planning in Waterfall Model and Agile Scrum Methodologies.
- Performed Data Extraction for the functional analysis utilizing sophisticated SQL Queries and performed E2E analysis of the product which improved the system functionality by 35 percent.
- Analyzed trends and patterns in data and extracted actionable business insights and prepared the test scenarios and functional design documents and dashboards using Tableau and Excel.
- Created Networks and responsible for OSS End-to-End Implementation.

PROJECTS:

Student Database Management

- Designed and developed a Relational Database for the Students details with all the fields required using EER, UML, Relational Modeling, and Normalization techniques(3NF) to avoid redundancy in the database using MS SQL Server.
- Applied data dictionary, CRUD Operations, Views, Triggers, Stored Procedures, Encryption MySQL and NoSQL (MongoDB), generated different plots and created Dashboards using R and tableau.

A**nalysis of world Indicators Dataset**

- Used clustering (K-means, hierarchical) to estimate the optimal number of clusters using WSS and silhouette methods and used best possible clustering technique by validating clusters using External and Internal Validation methods.
- Generated different scatter plots to observe a relationship between GDP and different attributes.

Keyword Network and Word Frequency Analysis

- Applied KCN to analyze the twitter data on a yearly basis to identify frequently co-occurred words by computing word-frequency plots, applying zipf's law, and building bigram network graphs.

Human Activity Monitoring

- Applied Natural visibility graph (NVG) and horizontal visibility graph (HVG) to the time series data of human activity of 15 subjects in python were applied to compute average degree, network diameter and average path length.
- Generated scatter plots for average degree vs network diameter for all the data sets.
- Computed permutation entropy and complexity for the different data sets and plot with various signal length, delay, and embedded dimensions in all three accelerometer directions.