NAGESH RANGASWAMY

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PROFILE:

Quick problem solver, adept in latest technologies with strong skills in data modeling, machine learning algorithms, statistical analysis, data engineering and data visualization.

EDUCATION:

University of Connecticut, School of Business, Hartford, CT **GPA:3.75**
Master of Science in Business Analytics and Project Management (Data Science Track) (Dec 2022), (STEM)
Sri Jayachamarajendra College of Engineering, Mysuru, India, affiliated to Visvesvaraya Technological University **GPA:3.7**
Bachelor of Engineering (May 2018)

TECHNICAL SKILLS/CERTIFICATIONS:

Analytical Tools / Programming: R, Python, SQL, JMP, Informatica PowerCenter, Microsoft Excel, SAS, AWS, GCP, Hadoop – Sqoop, Pig, Hive, PySpark Analytical Techniques: Feature Extraction, ETL, Warehousing (Azure DW), Hypothesis Testing, Sampling, Probability Distributions Database: Microsoft SQL Server, Oracle, Mongo DB, SQL
Programming: R, Python, VBA, JMP, C++, C
ML Libraries: NumPy,Scikit-learn ,PyTorch, Apache Spark, Pandas, Matplotlib, TensorFlow
Modeling: Linear Regression, Logistic Regression, Decision Tree, Boosted Tree, Bootstrap, Neural Network, KNN, Discriminant Analysis, Random Forest, Naïve Bayes, Ensemble Models
Visualization: Power BI, Tableau, Excel, SAP BW
Coursework: Statistics for Analytics, Data Management and Business Process Modeling, Predictive Modeling, Calculus, Big Data Analytics with Hadoop, Data Mining and Business Intelligence, Data Science using Python, AB testing

WORK EXPERIENCE

Data Analyst (Application Development Analyst), Accenture India Private Limited, Bangalore (July 2018-July 2021)

- Developed Linear Regression Model to predict customer churn rate based on their transactional behavior and used hypothesis testing concepts to improve customer retention by 17%.
- Developed appropriate predictive models in Python using boosting and bootstrapping techniques to forecast platform maintenance time for an oil company and the results were supplemented by an ensemble model that achieved 98% accuracy which reduced the maintenance cost to company.
- Using Apache Sqoop and Pig Hive, established an AWS connection to Hadoop in an EC2 environment and extracted data from different databases to Hadoop. Performed ETL techniques to enhance data quality in one platform which reduced the cost of storage in local data warehouse and increased computational efficiency.
- Worked on the data preprocessing using python, which included feature engineering, missing value detection and imputation, outlier identification and transformation, standardization and normalization, clustering analysis, data enrichment and exploratory data analysis/data wrangling which enhanced data quality.
- Developed a model for banking agency to identify potential defaulters based on previous credit history, used hypothesis testing concepts, and compared the results with ROC, AUC, and Misclassification rate. Achieved a total accuracy of 90% and a defaulter accuracy of 99% using the Decision tree and Neural network models.
- Analyzed large datasets using complex SQL queries and resolved data anomalies. Created Tableau/Power BI dashboards for weekly maintenance reports, Industry Comparison, Market Share, and certain other metrics consumed across all clusters for efficient tracking and insight generation on various KPI's.
- Extracted data from multiple ERP data sources for a project that involved creating close to 200 KPIs and integrated data using SAP Business Warehouse in a one-stop Microsoft Power BI dashboard.

RESEARCH/ ACADEMIC PROJECTS

Title: Sentiment Analysis on Hotel Reviews

Used Text Mining and NLP techniques to determine the hotel's reputation, understand customer's likes, dislikes and built a Supervised Machine Learning Algorithm to predict customer's sentiment from the provided review.

Title: Vehicle Coupon Recommendation Model: Predictive Modeling

Basis of previous survey data developed models to predict which customers would be most likely to accept the coupon in the future. Best models were combined as an ensemble to achieve highest accuracy in predicting categorical target variable.