Rahul Teja Bolloju

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SUMMARY:

Accomplished Data Scientist with 3 years of experience and a Master's in Data Science from Michigan Tech. Skilled in statistical methods, deep learning, and machine learning for strategic insights. Seeking Data Analytics and Data Scientist roles to apply expertise in driving business impact.

PROFESSIONAL EXPERIENCE:

Data Scientist | Pitney Bowes

July 2023 - August 2023

- Collaborated with Senior Data Scientist, Senior Manager, team members, and interns to develop SQL queries in Snowflake for sales data
 extraction and efficient analysis using Python.
- Implemented time series forecasting models (Auto ARIMA, Prophet) with 95% accuracy in predicting sales trends.
- Leveraged Joblib's parallel processing to reduce model evaluation time by 40%.
- Achieved 0.76 AUC in predicting customer defaulters with XGBoost through robust back testing.

Data Analyst I| Fonker Solutions

June 2020 - July 2022

- Employed web scraping techniques with Beautiful Soup to collect, pre-process data, and analysis of purchasing patterns and trends.
- Utilized cutting-edge data visualization tools and techniques, including Power BI and Plotly (Python library), to create dynamic dashboards, enabling stakeholders to explore and analyse the complex purchasing patterns and trends.
- Implemented sentiment analysis, employing machine learning algorithms such as Support Vector Machine and logistic regression to accurately predict and assess customer satisfaction levels, achieving an accuracy of 88%.
- Leveraged advanced analytics to identify and mitigate negative sentiment, employing techniques such as Natural Language Processing and sentiment classification, resulting in a 20% improvement in customer satisfaction scores.
- Demonstrated proficiency in agile development methodologies, continuously refining and optimizing solutions based on iterative feedback and data-driven insights.

Data Analyst | Vinx Innovation Tech Solutions

April 2020 - May 2020

- Developed machine learning models to optimize heavy vehicle fuel consumption, reducing fuel use by 10%.
- Integrated 7 predictive variables into a neural network, enhancing fuel prediction accuracy.
- Optimized fuel predictions using different window sizes, achieving top performance with a 1 km window.
- Attained a coefficient of determination of 0.91 and mean absolute percent error below 4%.

Data Science Intern | Smart Bridge Company

April 2019 - May 2019

- Led a team to develop a Convolutional Neural Network (CNN) model using OpenCV, achieving 86% accuracy in classifying animals.
- Implemented real-time wild animal detection with alerts, reducing response time by 50%.
- Enhanced safety for 10+ tribal villages and reduced human-wildlife conflicts by 30%.
- Coordinated with a 5-member team to integrate solutions, improving community safety for 8.6% of the national tribal population.

PROJECTS & INNOVATIVE IDEAS:

- Enhancing Gas Station Customer Experience: Analysed customer waiting times at Houghton gas stations using Two-way ANOVA. Reducing wait times by 20% through proposed strategies like placing popular items near the counter and enabling pump-side ordering to reduce wait times.
- RFM Analysis For Customer Segmentation: Applied RFM and K-Means to analysed Online Retail II data, optimizing clusters using the Elbow method and resolving issues. Achieved a Silhouette Score of 0.50925 with the K-Means model, optimizing customer segmentation by 30%.
- <u>Time Series Forecasting For Mortality</u>: Analysed CDC's National Vital Statistics System dataset, developed an XGBoost regression model, enhancing mortality rate prediction accuracy by 15% with superior performance metrics (R2, RMSE, MAE, MAPE).

LEADERSHIP & ENTREPRENEURIAL INITIATIVES:

Founder | Neta Global Leadership

November 2022 - Present

Engaging data students in ethical data science, mentoring over 10 future leaders, and empowering them with today's technology. Recognizing the importance of guiding students toward a clear career path and providing the support they need to success.

Vice President | Mahaveer Youth Association

September 2018 – August 2022

Leading a team of 40 in organizing a successful Ganesh Festival, raising \$5,000 through strategic fundraising. Demonstrated strong leadership and teamwork skills in enhancing community engagement and cultural celebration through effective event planning and execution.

EDUCATION:

Masters in Data Science | Michigan Technological University | Michigan, USA | CGPA: 3.66/4

August 2022 - April 2024

LICENSES & CERTIFICATIONS

- Microsoft Build a natural language processing solution with Azure AI Language
- AWS Cloud Quest: Cloud Practitioner
- Google Advanced Data Analytics Capstone

TECHNICAL SKILLSET:

- Programming Languages: Python, R, HTML, CSS, JavaScript, Java
- Frameworks and Tools: OpenCV, MySQL, Joblib, Power BI, Tableau, Microsoft Excel
- Cloud Platforms: Azure, AWS
- Data Science Skills: Data Analysis, Data Mining, Statistical Analysis, Time Series Analysis, Data Cleaning, Data Storytelling, Data Pre-processing, Machine Learning, Deep Learning
- Other Skills: UNIX, UX/UI, Collaboration, Problem-Solving, Communication Skills, Forecast Evaluation, Supply Chain, Review Data

PUBLICATIONS:

- Rahul B., Tripti S. "<u>Husky Voice An Innovative Voice Assistant</u>," 2023 MBAA International Conference.
- Rahul B., Nagaraju M., "<u>Digital Handwriting Recognition using Hand Tracking by using Media Pipe and OpenCV Libraries</u>," International Journal for Research in Applied Science and Engineering Technology.