Rahul Teja Bolloju

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SUMMARY:

- **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 impactful insights
- Seeking **Data Analytics and Data Scientist roles** to drive data-driven business success

EXPERIENCE:

Data Scientist - Pitney Bowes   06/2023 to 07/2023
- **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** (AutoARIMA, 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 backtesting**.

Data Analyst - FonkR Solutions   06/2020 to 07/2022
- 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 **PowerBI** and **Plotly** (Python library), to create **dynamic dashboards**, enabling **stakeholders** to explore and analyse **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   04/2020 to 05/2020
- 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 - The Smart Bridge   04/2019 to 05/2019
- **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 analyse **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%**.

LEADERSHIP & ENTREPRENEURIAL INITIATIVES:

Founder - Neta Global Leadership   11/2022 to 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 succeed.

EDUCATION:

Master of Science in Data Science   08/2022 to 04/2024
Michigan Technological University, Michigan, United States

CERTIFICATION:

[Google Advanced Data Analytics Capstone](#)
[AWS Cloud Quest: Cloud Practitioner](#)

SKILLS:

- **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

SKILLS:

Rahul B., Tripti S. – "[Husky Voice - An Innovative Voice Assistant](#)," 2023 MBAA International Conference.
Rahul B., Nagaraju M., "[Digital Handwriting Recognition using Hand Tracking by using Media Pipe and OpenCV Libraries](#)," International Journal for Research in Applied Science and Engineering Technology