Rahul Teja Bolloju

LinkedIn | rahultejabolloju@gmail.com | Github | Portfolio | +1 (906) 299-2760 | Chicago, IL

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**.

EXPERIENCE:

Data Analyst - CoderData **08/2024 to Present**

- **Collaborate** with **cross-functional teams** to develop and maintain databases and data visualization tools that **drive business outcomes**.
- Create **comprehensive reports, dashboards,** and **presentations** to communicate **data insights** effectively to **stakeholders**.
- Ensure **data quality, integrity,** and **security** while meeting deadlines in a **fast-paced environment**.
- Participate in **analytics initiatives** that enhance **operational efficiency** and **decision-making processes**.

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

PUBLICATIONS:

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