Venkata Naga Mahesh Pulagam

+1 405 332 0677 | vpulaga@okstate.edu | LinkedIn | Github | Portfolio | **Stillwater, OK, USA**

EDUCATION

Master's in Computer Science | Oklahoma State University , OK, USA | GPA : 3.7 / 4   *Jan 2023 - Dec 2024*
- *Graduate Teaching Assistant - Mentored 60 students in Software Engineering & Mathematics. Statistics & Probability, SQL .*

Bachelor's in Computer Science | GMR Institute of Technology, INDIA | GPA : 3.8 / 4   *Aug 2017 - Aug 2021*

SKILLS and CERTIFICATIONS

Data Analysis & Visualization Tools : Tableau, Power BI, Microsoft - Excel, AWS, Snowflake.

Database Management Systems: MySQL, Oracle, PostGreSQL

Programming Languages : Python (Numpy, Pandas, Matplotlib), R, PySpark, SQL.

Project Management Tools : JIRA

Machine Learning Algorithms : Natural Language Processing (NLP), Optical Character Recognition (OCR), Supervised Learning, Unsupervised Learning, Clustering, Deep Learning, Hypothesis Testing.

Certifications : Tableau Desktop Specialist, Microsoft Power BI Data Analyst, Google Data Analytics.

PROFESSIONAL EXPERIENCE

ZINK Center | [GitHub]   *Stillwater, OK, USA*
Machine Learning Engineer   *Jan 2024 - Jun 2024*
- Pioneered the development of a traffic sign detection system using YOLOv5, improving detection accuracy for small objects by 20% in complex environments.
- Integrated OCR technology with YOLO models, achieving a 30% reduction in false positives and enhancing traffic sign verification under challenging weather conditions.

WIPRO Technologies PVT. LTD | *Chennai, INDIA*
Project Engineer | Financial Analyst   *Aug 2021 - Jan 2023*
- Conducted root cause analysis (RCA) during System Integration Testing (SIT) and User Acceptance Testing (UAT), resolving critical defects and reducing error rates, which led to a 30% improvement in operational efficiency.
- Utilized SQL and advanced Excel functions (Power Query, XLOOKUP, Pivot Tables) to perform in-depth KPI analysis on banking transactional data, delivering actionable insights that enhanced business performance.

ACADEMIC PROJECT EXPERIENCE

Business Sales Insights | Tableau |Power BI | MS Excel | MySQL | SQL   **Oklahoma, USA**
Data Analyst | [GitHub]   *Jan 2024 - Mar 2024*
- Developed a Power BI dashboard using MySQL data, reducing manual data processing time by 20% and streamlining data extraction and transformation processes.
- Delivered actionable sales insights, empowering the sales team to make data-driven decisions, resulting in a projected 10% reduction in total spend and improved regional performance.

Cricket Data Analytics | Power BI | MS Excel | MySQL | SQL | Python | Pandas | JSON | JavaScript   **Oklahoma, USA**
Data Analyst | [GitHub]   *Apr 2024 - Jun 2024*
- Scraped and transformed player data using Beautiful Soup, Pandas, and Power Query to develop a Power BI dashboard with DAX measures, improving team selection efficiency by 21% and providing actionable insights for performance comparison.

AUTOMATED CLASSIFICATION OF TWEETS INTO SMART CITIES DIMENSION [GitHub]   *INDIA*
Team Lead | Machine Leaning Engineer | AI | Python   *Jan 2021 - May 2021*
- Performed ETL on 10,000+ tweets, enhancing data quality by 20% through tokenization & feature engineering with CountVectorizer and TF-IDF. Trained & Deployed ML models (Random Forest, Decision Tree, KNN), achieving 96% accuracy.
- Integrated this model into governmental systems to automate complaint classification, resulting in a 15% improvement in decision-making and service response times.

RESEARCH EXPERIENCE

Unique Identification Authority of India BOT | [Springer] | **ISBN: 978- 981-15-5397-4.**   **INDIA**
Machine Learning Engineer   *Jun 2020 - Dec 2020*
- Developed an Artificial Intelligence -powered chatbot using Google Dialogflow, Python-based QR code generator, and machine learning for NLP, automating Aadhaar service support for 1.3 billion users, achieving 93% query resolution accuracy, reducing human intervention by 50%, and improving response time by 80%.