

# Janvisree Puligundla

## Data Analyst

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### WORK EXPERIENCE

#### JPMC

##### Data Analyst

North Carolina  
Aug 2023 - Current

- Utilized SQL and Python to conduct comprehensive data analysis, employing techniques such as data visualization, data mining, and data warehousing to extract valuable insights from diverse datasets.
- Contributed to a 15% improvement in operational efficiency through automation of data collection, cleaning, and preprocessing tasks, resulting in a reduction of 20 hours/month in manual effort.
- Collaborated with cross-functional teams to implement ETL processes, resulting in a streamlined data pipeline and a 20% improvement in data processing efficiency.
- Designed and implemented interactive dashboards in Tableau, facilitating data-driven decision-making and increasing stakeholder engagement by 25%.
- Implemented AWS infrastructure services, including EC2, S3, Lambda, and Redshift, contributing to a 20% improvement in data processing efficiency and a cost reduction of \$10,000 per quarter.
- Developed predictive models using Scikit-learn and Random Forest, leading to improved accuracy in forecasting customer behavior and analyzing market trends.
- Achieved a 10% increase in accuracy in forecasting customer behavior, resulting in a \$50,000 increase in revenue per quarter.
- Designed rich data visualizations using Tableau and Matplotlib, improving data accessibility and comprehension among stakeholders.
- Increased stakeholder engagement by 25% through the creation of informative data visualizations and dashboards in Tableau and Power BI.
- Conducted exploratory data analysis to uncover insights and trends in customer behavior and market dynamics.
- Developed and maintained data pipelines to ensure data integrity and reliability for analysis.

#### Hewlett Packard (Hp inc)

##### Data Analyst/ Firmware Engineer

India  
Jun 2021 - Jul 2022

- Analyzed complex data sets using statistical and data analysis techniques to identify trends, patterns, and insights.
- Identified and recommended process improvements resulting in a 20% increase in operational effectiveness.
- Developed machine learning models for predictive modeling, regression, classification, and clustering, addressing complex business challenges.
- Achieved a 15% improvement in model accuracy compared to previous methodologies, leading to more accurate predictions.
- Conducted root cause analysis to identify areas for optimization and efficiency improvement.
- Presented findings and insights to cross-functional teams and stakeholders in a clear and actionable manner.
- Collaborated with software engineers to integrate machine learning models into production systems.
- Conducted regular performance evaluations and optimizations to ensure the scalability and efficiency of data processing pipelines.

#### Hewlett Packard (Hp inc)

##### Data Analyst (Research & development) intern

India  
Jan 2021 - May 2021

- Designed and implemented a modular solution to identify erratic test cases within the CI/CD pipeline, improving testing reliability by 20%.
- Developed advanced Python scripts to analyze test case execution history, leading to a 20% increase in testing accuracy and reliability.
- Created informative reports and dashboards in Tableau, providing actionable insights to project teams and stakeholders.
- Developed machine learning models to analyze test case behavior and predict intermittency, leading to more efficient CI/CD pipelines.
- Led data cleaning and feature scaling efforts, ensuring data integrity and accuracy in predictive modeling.
- Optimized database performance, resulting in a 15% reduction in query execution time and improved data accessibility.

## PROJECTS

### IPL score table visualization using Tableau

- Performed data analysis and visualizations on IPL dataset.
- Utilized map to depict the number of matches at each location, the captain of the winning team, and the champion of each year.
- Increased stakeholder understanding of IPL trends by 30% through interactive Tableau visualizations.
- Depicted the points table (points of each team in the league), the most fours and sixes, number of orange caps and purple caps, and various ways in which a bowler was dismissed in the selected year.

### Chronic kidney disease Prediction | Machine learning, python (NumPy, pandas, scikit-learn)

- Developed six supervised machine learning algorithms to enhance predictive modelling for chronic kidney diagnosis.
- Implemented a strategic approach to select top performing algorithms, showcasing a meticulous selection process based on accuracy and running time.
- Achieved a 25% increase in prediction efficiency through the implementation of optimized machine learning algorithms.
- Combined the best two performing algorithms using a single neuron, contributing to a 20% more efficient prediction of chronic kidney disease.

## SKILLS

**Programming skills:** Python, SQL, R, Java, C++, Shell scripting, Data structures and algorithms

**Databases:** MySQL, SQL Server, PostgreSQL, XPath, Snowflake, RStudio

**Frameworks/Libraries:** Tensor Flow, PyTorch, Keras, Scikit-Learn, NumPy, Pandas, Matplotlib, ChromaDB, Peft, Hugging Face

**Large Language Models:** Literature Survey, Fine-Tuning, Prompt Engineering, LangChain, Vectorization, Quantization

**Machine Learning:** Regression, Classification, Clustering, Feature Engineering, Anomaly Detection, Dim. Reduction

**Computer Vision:** CNN, GNN, Image Processing, Classification, Segmentation, Augmentation, Object Detection

**NLP:** OCR, PDF Table Extraction, Text Classification, Bert, Transformers, Text Generation, Question -Answering

**Data Visualization:** Matplotlib, Seaborn, ggplot2, Tableau, MS Excel, RShiny, Plotly Dash, PowerBI

**Deployment:** Streamlit, Jenkins, Airflow, Amazon Sagemaker, FastAPI, Docker, vLLM, TGI, GGML, GPTQ

**Big data Processing:** MapReduce, Scala, AWS (EC2, EMR, S3), PySpark, Airflow, Koalas, Amazon Redshift

## EDUCATION

**University of North Carolina**

*Master of Science in Computer Science*

**Charlotte, NC**  
**Aug 2022- Dec 2023**

**Sastra deemed to be university**

*Bachelor of Technology in Computer Science*

**Thanjavur, India**  
**Jun 2017-May 2021**