Janvisree Puligundla
Data Enthusiast

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SUMMARY

As a dedicated and innovative **Data enthusiast**, I bring over three years of industry experience, specializing in analytics, machine learning, and data visualization. My expertise lies in transforming complex data into actionable insights and creating predictive models that drive strategic decision-making. Proficient in SQL, Python, and various BI tools like Tableau and Power BI, I excel in crafting data-driven solutions that enhance efficiency and foster innovation across diverse projects.

WORK EXPERIENCE

JP Morgan Chase & Co   *North Carolina*
Data Analyst   *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.
- Developed predictive models using Scikit-learn and Random Forest, leading to improved accuracy in forecasting customer behavior and analyzing market trends.
- 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 S3, Sagemaker and Redshift, contributing to a 20% improvement in data processing efficiency and a cost reduction of $10,000 per quarter.
- Achieved a 10% increase in accuracy in forecasting customer behavior, resulting in a $50,000 increase in revenue per quarter.
- Conducted exploratory data analysis to uncover insights and trends in customer behavior and market dynamics.

Hewlett Packard (Hp inc)   **India**
Data Analyst/ Firmware Engineer   *Jun 2021 - Jul 2022*

- Analyzed complex data sets using statistical and machine learning 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.
- 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)   **India**
Data Analyst (Research & development) intern   *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 janvlyze test case execution history, leading to a 20% increase in testing accuracy and reliability.
- 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, show casing 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

Languages	Python, SQL, Java, Shell scripting, Data structures and algorithms
Databases	MySQL, SQL Server, MongoDB, DynamoDb
Cloud Technologies	AWS (EC2, S3), IAM, Sagemaker, Redshift
Visualization Tools	Tableau, MS Power BI , MS Excel
Project Management	Agile, JIRA
Machine Learning/AI	SVM, Random forest, K-NN, Decision trees, Neural Networks, LLM, Natural Language Processing (NLP), Generative AI, Supervised & Unsupervised Learning, Statistical Analysis, Predictive Modelling
Frameworks/libraries	NumPy, Pandas, Seaborn, Tensorflow, PyTorch, Keras, Scikit-learn, MatPlotlib
Other skills	PySparK, Hadoop, MapReduce, Jenkins, Docker, Sagemaker, Exploratory Data Analysis, Data Warehousing, Data Cleaning

EDUCATION

University of North Carolina   **Charlotte, NC**
Master of Science in Computer Science   *Aug 2022-* **Dec 2023**

Sastra deemed to be university   **Thanjavur, India**
Bachelor of Technology in Computer Science   **Jun 2017-May 2021**