HARI HARA SAI UPPADA

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**PROFESSIONAL SUMMARY**

Dedicated and result-orientated software engineer with 2+ years of experience executing data-driven solutions to increase efficiency and accuracy of internal data processing. Looking for an opportunity in machine learning and data analysis.

**ACHIEVEMENTS**

* Received client appreciation for outstanding project delivery, resulting in increased client satisfaction.
* Awarded On the Spot for significant contributions to the project.

**SKILLS**

**Programming Skills:** Oracle PL/SQL, Python for Machine Learning

**Tools:** Oracle SQL, Microstrategy, Autosys, Jira, Confluence, Datastage,

Winscp, Github, Jupyter Notebook, Tableau

**WORK EXPERIENCE**

**System Engineer | Tata Consultancy Services(TCS)**

**Hyderabad | Apr 2021– Oct 2023**

**Client: American International Group(AIG)**

**Contribution:**

* Worked on business requirements and successfully delivered solutions which exceeded client expectation.
* Collaborated using JIRA and Confluence for project tracking, documentation, and communication.
* Leveraged Microstrategy for creating reports, facilitating data-driven decision-making.
* Administered Datastage ETL processes, streamlining data workflows and enhancing data quality.

**Client: Corebridge financial**

**Contribution:**

* Managed and maintained database systems using PL/SQL, ensuring optimal data integrity and performance.
* Tested processes after migration of servers from AIG to Corebridge environment.
* Monitored processes in real-time, quickly addressing issues to prevent SLA breaches using Autosys.
* Utilized Service Now to create and raise incidents when jobs were failing due performance issues.
* Collaborated with the DBA team to resolve issues and deploy codes using Github.
* Document and create new knowledge base to provide the most effective solutions to application issues.
* Communicated with business users to understand expectations and provide progress updates on enhancement tasks.

**EDUCATION**

Bachelor of Technology in Mechanical Engineering

VNR VJIET, Affiliated under JNTUH, 2020

**CERTIFICATIONS**

* NLP with Python for Machine Learning Essential Training
* Python for Data Science, AI & Development
* Introduction to Computer Vision and Image Processing

**PERSONAL PROJECTS**

**1.Analysis of Car Mileage and SAT Admissions**

**Objective:**

* Cars Mileage Dataset: To determine the factors affecting car mileage using regression techniques.
* SAT Admission Dataset:To analyze the relationship between SAT scores and Admittance.

**Key Concepts Learned:** Preprocessing, Outliers detection, Assumptions and types of linear and logistic regression

**Outcome:** Determined the weights of each of the features to have a better understanding of prediction of the model.

### 2.Customer segmentation using market data

**Objective**:

To find out different clusters based on satisfaction and loyalty of customers to increase sales in market.

**Libraries Used:** Matplotlib and Seaborn for visualization, scikit-learn, Pandas to build model.

**Outcomes:**

* Classified the customers into 4 segments by using clustering which helped in providing better understanding of customer behavior.
* Created scatter plots for visualization.

**3.Absenteeism Dataset Analysis and Prediction**

**Description:**

Dataset contains records of 700 employees containing information like employee age, family count, average work load, multiple reasons for absenteeism, absenteeism time in hours.

**Objective**:

* Develop a predictive model for absenteeism to identify at-risk employees.
* Identify trends and parameters which have major contribution to employee absenteeism.

**Applications Used:** Python (pandas, scikit-learn), Tableau.

**Outcomes:**

* Identified the reasons for absenteeism and developed a predictive model using logistic regression.
* Multiple interactive graphs were plotted between the features and the likely hood an employee to be absent using Tableau.

**Key Points to Highlight:**

* **Data Processing:** Applied feature engineering techniques to refine the dataset, ensuring good model performance.
* **Model Interpretation:** Demonstrated ability to interpret and communicate complex model outputs using Tableau.

### 4.Predicting Audiobook Purchases with Deep Learning

#### **Description:**

#### Dataset contains records (activity) of customers who had at least one purchase from the audiobook app.

#### **Objective:**

#### To predict if a user will buy again based on activity of user in the platform.

#### To learn about different optimization techniques and objective functions in neural networks.

#### **Outcomes:**

#### Built a logistic regression models, made changes in the threshold values to get better model with good accuracy.

#### Built neural network using tensorflow by using different optimization techniques and objective functions.

#### Compared the results made by above models to understand effective approach to create a model.

#### Visualized model performance through accuracy plots, providing insights into the training process and

#### model effectiveness.