ABISHEKDAKSHNA R

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OBJECTIVE

Analytical data analyst skilled in SQL, Python, and data visualization tools. Seeking to apply strong statistical knowledge and data interpretation skills to drive informed decision making in a dynamic environment.

EDUCATION

MASTER OF TECHNOLOGY ARTIFICIAL INTELLIGENCE AND DATA SCIENCE – SASTRA DEEMED UNIVERSITY – Thanjavur, Tamil Nadu June 2023-2025
Majors: Data Analytics, Data Scientist, Business Analytics, Artificial Intelligence, Machine Learning.

BACHELOR OF COMPUTER SCIENCE – MAM COLLEGE OF ENGINEERING – Tiruchirappalli, Tamil Nadu June 2022
Majors: Computer Networks, Operating Systems, Web Development.

HIGHER SECONDARY – CHELLAMMAL MATRICULATION HIGHER SECONDARY SCHOOL – Tiruchirappalli, Tamil Nadu Mar 2018
Majors: Computer Science

SENIOR SECONDARY – BHEL MATRICULATION HIGHER SECONDARY SCHOOL – Tiruchirappalli, Tamil Nadu Mar 2016
Majors: Computer Science

SKILLS

Python
Libraries: pandas, matplotlib, TensorFlow, PyTorch, ggplot2, re, os

SQL
Software: MySQL

Excel
Tools: Pivot Table, Pivot Chart, VLOOKUP, HLOOKUP, VBA

Power Bi
Tools: DAX, API, Power Query

INTERNSHIP

DATA SCIENCE INTERN – Codealpha April 2024- June 2024

- Prediction with LSTM: Used Jupyter notebooks to implement LSTM models for forecasting stock prices, gaining insights into time series analysis and predictive modeling
- Modeling with Linear Regression: Developed robust Linear Regression models to predict outcomes based on diverse datasets, refining my data preprocessing and model evaluation skills.
- A/B Testing Analysis: Led A/B testing initiatives to evaluate the effectiveness of interventions, applying statistical techniques to derive actionable insights for strategic decision-making.

DATA SCIENCE INTERN – Coratia Technologies June 2024- Jully 2024

- Machine failure prediction project where I developed a machine learning model to analyze sensor data. The goal was to predict failures in advance, enabling proactive maintenance and reducing downtime

POWER BI MANGER (TRAINEE)– Omega Healthcare **–** Tiruchirappalli, Tamil Nadu December 2023- March 2024

I created a Power BI dashboard to help clients compare employee benefit packages, transforming and processing their data using DAX and Excel to ensure completeness and validity. I provided technical insights on utilizing their data more effectively through various technologies. Additionally, I consulted with the client to identify the most relevant metrics for the final product display

PROJECTS

KNEE OSTEOARTHRITIS DETECTION AND SEVERITY CLASSIFICATION USING RESIDUAL NEURAL NETWORKS ON X-RAY IMAGES

- Developed a deep learning-based system for detecting and classifying knee osteoarthritis (KOA) severity using X-ray images.
- Preprocessed X-ray images using segmentation, cropping, and histogram equalization techniques.
- Performed binary classification to detect KOA presence and multiclass classification for severity levels (Minimal, Moderate, Severe).
- Utilized the Osteoarthritis Initiative (OAI) dataset with over 9,700 X-ray images.
- Leveraged Python, TensorFlow/Keras, and Google Colab for model development and evaluation.
- Achieved up to 89% classification accuracy for severity classification with ResNet101.
- Evaluated models using metrics like accuracy, precision, recall, and F1 score.
- Contributed to improving KOA classification benchmarks for automated diagnosis.

ELECTION AD CAMPAIGNS ANALYSIS – Personal Project Link June 2024

- Collected and cleaned data on ad spending from Facebook and Instagram by political parties (BJP and INC) during the Indian elections 2024 for each state.
- Analyzed spending patterns, including trends over time and across different states.
- Correlated ad spending with voting outcomes and patterns to assess the impact of digital ad campaigns on voter behavior.
- Visualized findings using Python libraries like Pandas, Matplotlib, and Seaborn to create clear and informative charts and graphs.
- Assessed the effectiveness of ad spending strategies using statistical analysis and metrics such as voter turnout and election results.
- Addressed data privacy and ethical considerations in the analysis and reporting process.

DELHI METRO NETWORK ANALYSIS – Personal Project Link December 2023

- Cleaned and prepared CSV datasets containing Delhi Metro station and route information for analysis.
- Used Python tools like NetworkX and Matplotlib to visualize station connections and route density.
- Implemented algorithms like Dijkstra's to find shortest paths between stations, aiding in route planning.
- Analyzed CSV data to understand peak hours, station popularity, and passenger flow patterns.
- Evaluated station accessibility based on factors like distance and connectivity for infrastructure planning
- Proposed interventions based on analysis findings to enhance Delhi Metro system efficiency.

NETFLIX DATA ANALYSIS WITH PYTHON – Personal Project Link November 2019

- Managed CSV dataset in Python, ensuring data integrity and consistency for analysis.
- Utilized Pandas and Matplotlib in Python to create visual representations, aiding in the identification of trends and patterns within the dataset.
- Derived actionable insights from the Netflix dataset, potentially informing strategic decisions for sales enhancement and business development.

CERTIFICATIONS

PYTHON FOR MACHINE LEARNING– GREAT LEARNING February 2024
MACHINE LEARNING ONRAMP– MATHWORKS February 2024
CHAT GPT FOR EVERYONE– GUVI December 2023
DATA ANALYSIS WITH NUMPY, PANDAS, AND PYTHON– SCALER MASTERCLASS August 2023
AI FOR INDIA 2.0– GUVI August 2023
INTRODUCTION TO DATA SCIENCE–CISCO July 2023