ABISHEKDAKSHNA R

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Tiruchirappalli, 620013

OBJECTIVE

Data-driven professional skilled in Python, SQL, and machine learning, passionate about leveraging AI and analytics to extract insights, optimize strategies, and drive informed decision-making

EDUCATION

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

BACHELOR OF COMPUTER SCIENCE – MAM COLLEGE OF ENGINEERING – Tiruchirappalli, Tamil Nadu June 2018-2022
Majors: Computer Networks, Operating Systems, Web Development.

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

DATA SCIENCE
Machine Learning, Deep Learning

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- July 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 MANAGER (TRAINEE) – Omega Healthcare December 2024- March 2025

- Developed a Power BI dashboard for employee benefit comparison, using DAX and Excel for data processing and validation.
- Provided technical insights and consulted with clients to identify key metrics for optimal data utilization.
- Enhanced data-driven decision-making by leveraging various technologies for effective visualization and analysis.

PROJECTS

ALZHEIMER'S DISEASE DETECTION USING CNNS

- Designed and implemented a deep learning model using EfficientNetB0 and EfficientNetV2B1 to classify MRI brain scans into four Alzheimer's severity levels (Non-Demented, Very Mild, Mild, and Moderate Demented).
- Addressed class imbalance using data augmentation techniques and compared ordinal vs. categorical classification, leading to improved model accuracy and robustness.
- Evaluated model performance using precision, recall, F1-score, ROC-AUC, and confusion matrix, achieving enhanced diagnostic capability over existing approaches.

ELECTIONS AD SPENDING ANALYSIS

- Conducted data-driven analysis of election ad spending on Facebook and Instagram during the 2024 Indian elections using Python.
- Analyzed datasets on advertisers, locations, and election results; utilized Pandas, Matplotlib, and Seaborn to uncover spending trends and their impact on voter turnout.
- Discovered that higher ad spending does not necessarily translate to higher voter turnout, highlighting various influencing factors in political campaign effectiveness.

ELECTRIC VEHICLES MARKET ANALYSIS & FORECASTING

- Analyzed electric vehicle market trends using Python (Pandas, Seaborn) and visualized EV adoption, manufacturer popularity, and vehicle type distributions.
- Developed an exponential growth model using SciPy to forecast EV adoption trends up to 2029 based on historical registration data.
- Extracted business insights on EV adoption by region, vehicle range trends, and top manufacturers, helping understand market growth patterns.

AMAZON RETAIL SALES ANALYSIS – (EXCEL)

- Developed an interactive Amazon Retail Sales Dashboard using Excel, incorporating Pivot Tables, Charts, and Slicers for data exploration.
- Analyzed key metrics like total revenue, sales quantity, branch performance, and customer payment preferences.
- Provided data-driven insights to optimize sales strategies and enhance business decision-making.

MAGNIFICENT 7 – (EXCEL, POWER BI)

- Developed an interactive Power BI dashboard for the Magnificent 7 stocks, transforming raw Excel data into actionable insights through data modeling and visualization.
- Designed advanced analytics with KPIs, previous period comparisons, ranked trends, and error bars using DAX calculations for deeper financial analysis.
- Optimized report performance and formatting, implementing dynamic slicers, custom themes, tooltips, and interactive visual elements for a seamless user experience.

CERTIFICATIONS

DEEP LEARNING WITH PYTORCH FOR MEDICAL IMAGE ANALYSIS
LEARN PYTHON: THE COMPLETE PYTHON PROGRAMMING COURSE
MICROSOFT EXCEL: BEGINNER TO ADVANCED
DATA VISUALIZATION WITH POWERBI SIMPLIFIED
ARTIFICIAL INTELLIGENCE A-Z (2025): BUILDING AI, LLM & CHATGPT APPLICATIONS