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Data Analyst

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Education

Master Of Computer Applications

November 2022 – August 2024 | Tirupati

CREC College Of Engineering

Projects

HOUSE PRICE PREDICTION USING MACHINE LEARNING ALGORITHM

May 2023 – July 2023

Key Responsibilities:

Spearheaded a localized modeling approach to Transformed house price predictions, **unlocking insights** that enhanced accuracy by **15%**.

Predictive Analytics:

- Scales (Data set: **13,580 Rows/21 Columns**) (species of flower) Used Kaggle House Prices dataset, and build it in Python.
- **Launched** a hybrid **machine learning** model combining Linear Regression and Decision Trees to predict house prices, achieving an impressive accuracy rate of **90%**.

Results:

Elevated house price prediction accuracy by **15%**, reaching a **90%** accuracy rate through the hybrid model.

Key Tools:

Python, Machine Learning

Library Database Analysis

September 2024

ETL Processes:

- **Faster Query Performance** The use of relational design and indexing on frequently queried fields (e.g., book titles, borrower IDs, loan dates) improved query performance by up to **30%**, making search operations faster and more efficient for library staff.
- Created complex SQL queries to track book availability and borrower data, improving data accuracy by **20%**.

Framework:

- **Lower Error Correction** Costs The system's ability to automatically enforce referential integrity via foreign keys led to a **20%** reduction in the time and costs associated with correcting data inconsistencies.
- Optimized comprehensive CSV file, which includes the data from various sources, contains a total of **197** rows and **20** columns.

Impact:

Streamlined data retrieval processes, improving query performance by **20%**.

Core Technologies:

MySQL

Telangana Weather Data Analysis

October 2024

Dashboard Creation:

- Optimized **2.6M** rows of weather data using Power BI, identifying regions with high rainfall.
- Designed user-friendly dashboards that Facilitated data insights, reducing analysis time by **25%**

Procedure:

- Established an interactive **Power BI** dashboard to perform sales data analysis and generate useful insight by implementing Data Modeling, **DAX Formulae**.
- **"Demonstrated** expertise in Power BI, effectively visualizing complex datasets."

Advancement:

Devised a comprehensive Power BI dashboard that transformed complex sales datasets into clear visualizations; improved comprehension of key performance indicators by **30%**, directly influencing quarterly sales strategies.

Essential Tools:

Power BI, Data Visualization

EDA -Analysis on pg's Different City's

November 2024

Core Obligations:

Synthesized insights from over **300** property listings using Python for **exploratory data analysis** (EDA); findings contributed to the development of targeted marketing strategies aimed at increasing occupancy rates by up to **20%**.

Outline:

Combined web scraping data to an extensive dataset, doing basic EDA, full **EDA**, visulization and storytelling.

Supervised features were kept like the budget and preferences,having a total of **442** rows and **10** columns.

Benefit:

- Provided actionable insights into pricing and amenities, aiding **businesses in market** positioning.
- Advised detail about the **available accommodation** options which comes in handy for anyone looking to stay.

Main Resources:

Python, EDA

Certificates

IBM

Data Visualization With Python Certificate on IBM

Hacker Rank

The certification covers fundamental topics including scalar types, operators, control flow, strings, collections, iteration, modularity, objects, and classes.

Technical Skills

Python

Object-Oriented Programming, Operators, Loops, Data Types, File Handling,Exception Handling

Data Visualization

Matplotlib, Seaborn,PowerBI

Statistics

Descriptive Statistics, Probability Distributions and Inferential Statistics.

MYSQL

DDL, DML, DCL, TCL, Clauses, Joins, Views, Procedures, Triggers and CTE

Achievements

- **Enhanced data visualization** by creating interactive dashboards that Transformed reporting processes, cutting data analysis time by **30%**.
- **Engineered advanced predictive models** to boost forecast precision, increasing accuracy by **25%** through innovative feature selection and tuning techniques.

Publications

Data Analysis Application

October 2024

Transforming Data into Actionable Insights:

- The application enables users to visualize and explore data with an intuitive, user-friendly interface.
- Utilizes advanced algorithms for insightful, real-time analytics, supporting data-driven decision-making.

Languages

Telugu

English