Bhairav Ganguly

Software Engineer Intern

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Skills

Programming languages : Python, C

Database Management : MySQL, PostgreSQL

Web Development : HTML, CSS, React

Education

B.Tech in Electronics and Computer Science Engineering - Kalinga Institute of Industrial Technology 2022 – 2026, Bhubaneswar

Professional Experience

Intern | JK Tech June 2024 – July 2024, Kolkata

- **Developed** a seamless and responsive front-end interface using React for efficient management and access to library resources.
- **Implemented** SQL-based database management and Python back-end logic to handle data storage, user requests, and system interactions.
- **Integrated** the Llama3 Gen AI model to automatically generate summaries from uploaded PDFs, enhancing user efficiency.

Projects

1. AI-Enhanced Library Management System :

- **Designed** a responsive UI for the front-end using React and built components with React's component-based architecture for efficient development and maintenance.
- **Built** back-end logic in Python for secure data processing and user request handling.
- **Created** RESTful APIs to facilitate seamless communication between front-end and back-end.
- **Integrated** Llama3 Gen AI to automatically generate concise PDF summaries.

2. Sales dashboard and forecasting using Power BI

: Data Integration and Preparation:

- **Data Sourcing:** Gathered sales data from multiple sources, including CRM systems, Excel sheets, and databases, ensuring comprehensive data coverage.
- **Data Cleaning,Transformation and Modelling:** Used Power Query to clean, transform, and normalize the data, ensuring accuracy across the dataset.Then structured the data into an effective relational model within Power BI.

Dashboard Design & Visualization :

- Utilized custom visuals and charts like bar charts, line graphs, pie charts, and heat maps, to represent sales data in an intuitive and user-friendly manner.Also implemented dynamic filters and slicers for specific regions and products.

Sales Forecasting:

- **Time Series Analysis:** Applied time series analysis techniques to the data to identify trends and patterns.

3. Real Estate Price Prediction Web App :

- **Developed** a machine learning web application to predict Bangalore house prices based on user input like Location,BHK,Bath and Area(Square feet).

- **Designed** a dynamic UI using HTML, CSS, JavaScript that allows users to input property details and fetch real-time price predictions.

- **Trained** a Linear Regression model on Kaggle's Bangalore Home Prices dataset, implementing data preprocessing, by carrying out outlier removal, feature engineering, dimensionality reduction, GridSearchCV for hyper-parameter tuning, and K-fold cross-validation for optimization.

- **Built** a Flask-based REST API that acts as the backend server, handling HTTP requests from the frontend and serving house price predictions.