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| RITIK VIJAN  **AI/ML Passionate**  **Software Developer** Contact +918879924229  [shivamvijan1999@gmail.com](mailto:Shivamvijan1999@gmail.com)  🌐 [**GitHub**](https://github.com/ritikvijan) Technical ProfileAnalytics / Programming  * Python * Sabretalk * Assembler 390  Tools  * Jupyter Notebook * Visual Studio Code * Google Colab * Power Bi * Flask  Key Skills  * Deep Learning * Predictive Modelling * NLP and LLM  Database  * MySQL  Competencies  * Proactive communication * Technology solution design * Troubleshooting and resolution * Programming/Technical Analysis * Software Development Life Cycle * Agile Methodology   **Functional Skills**   * Airline Industry * Flight Movement * Crews Domain * Agile Methodology |  | **Overview**  Experience Python developer with a robust 2+ years background in transforming ideas into efficient and scalable code with a knack of problem-solving and a commitment to clean, readable, and maintainable software  **Objective**  To obtain Challenging position where I can use my knowledge and expertise to help the organization grow and develop, as well as to implement solutions using a variety of the newest emerging trends in AI/ML. |
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| **Work History (Nov 2021 – Current)** |
| Associate Software Engineer - Hexaware TECHNOLOGIESNov 2021 - Present Engaged in end-to -end Software Development Life Cycle, including requirement analysis, design, coding, and testing phase of project.  Working in ACARS functionality facilitating seamless communication between cockpit crew and ground staff, handling both uplink and downlink messages efficiently. Enhanced system for updating PIC (Pilot in Command) signatures. |
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| Data Science & Power BI Projects |
| **Movies Recommender System (ML):**  The Interactive Movie Recommendation System is a project aimed at providing personalized movie recommendations based on user input.  **SMS Spam Classifier (ML):**  This Machine Learning project designed to classify text messages as Spam or Ham (non-Spam).  **Sales Data Analysis (EDA):**  This **Exploratory Data Analysis (EDA)** for Customer Segmentation project aims to analyze a dataset containing customer information to gain insights into demographic trends and purchasing behaviors  **Ecommerce Data Analysis (BI):** This dashboard is for an ecommerce store leverages Power Query editor for data refinement and incorporates KPI’s to offer a comprehensive view of key metrics, It enables intuitive exploration and analysis of sales performance, customer behavior, and inventory management. |
| education (2019 – 2021) |
| **Bachelor of Science: Information Technology Mumbai University** |
| Accomplishments |
| Based on my technical expertise, the solutions I provided, and my interactions with clients, I was named a Top Rater with Niche Skills in my first year of corporate employment. |

**Detail Overview on Projects**

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| * **Movies Recommender System (ML)**   **Milestones / Elements in Development**:  **Data Acquisition and Preprocessing:** Movie data is obtained from CSV file, which are then loaded into **Pandas** **DataFrames**. Data cleaning tasks, such as handling missing values and removing duplicates, are performed using **Pandas**.  **Text Vectorization:** Movie descriptions are vectorized using the **Count** **Vectorizer library**, converting textual data into numerical vectors suitable for analysis.  **Text Processing:** The **Porter Stemmer library** is applied to remove stop words and reduce words to their root forms, enhancing the efficiency of textual analysis.  **Similarity Analysis:** **Cosine Similarity** is calculated between movie descriptions and user preferences to identify movies with similar characteristics.  **Data Dumping:** Processed data, including vectorized movie descriptions and similarity scores, are serialized using the **Pickle library** for efficient storage and retrieval.  **Poster Retrieval:** The **Requests module** is used to fetch movie posters from IMDB website based on movie titles, enhancing the visual appeal of the user interface.  **User Interface Development:** **StreamLit** is employed to develop an interactive web application where users can input their preferences and receive personalized movie recommendations based on similarity analysis. [GitHub Link](https://github.com/ritikvijan/Movies-Recommender-System) |
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| * **SMS SPAM Classifier (ML)**   **Milestones / Elements in Development**:  **Data Acquisition and Preprocessing:** Movie data is obtained from CSV file and loaded into Pandas DataFrames. Data cleaning tasks, including handling missing values and removing duplicates, are performed using **Pandas**.  **Text Preprocessing:** The message corpus is preprocessed using the **Porter Stemmer library** to remove the stop words and reduce words to their root forms, improving the quality of text analysis.  **Visualization:** **Matplotlib** and **Seaborn libraries** are used to visualize the distribution of message data and explore patterns.  **Word Cloud Generation:** The **WordCloud** library is employed to create word clouds of transformed text for both ham or spam messages, visualizing the most common words in each category.  **Model Training and Testing:** By using **Train\_Test\_Split** module, Eleven different machine learning models are trained on the training data and evaluated on the testing data to identify the best performing model.   **Voting Classifier:** A **VotingClassifier** library with soft voting strategy is employed to combine predictions from multiple machine learning models.  **Data Dumping:** Trained machine learning models and processeddata are serialized using the **Pickle library** for efficient storage and retrieval. **User Interface Development: StreamLit library** is utilized to develop an interactive web application where users can input messages and receive real-time predictions on whether they are Spam or Ham. [GitHub Link](https://github.com/ritikvijan/SMS-Spam-Message-Classifier) |
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| * **Sales Data Analysis (EDA)**   **Milestones / Elements in Development**:  **Pandas:** It is employed to read CSV files containing customer data and perform data cleaning tasks such as handling missing values, removing duplicates, and restructuring data for analysis.  **Matplotlib & Seaborn:** These libraries are utilized for data visualization purposes, including creating various plots and charts to explore the distribution of customer data and identify patterns.  **Insights & Conclusion:** After analyzing the visualizations generated from the dataset, drawn several insights regarding the category of more likely to buy products for e.g., **Gender Analysis, Age Analysis** etc. [GitHub Link](https://github.com/ritikvijan/Diwali-Sales-Data-Analysis) |
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**Detail Overview on Projects**

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| * **Ecommerce Data Analysis (BI)**   **Milestones / Elements in Development**:  **Data Acquisition:** The project starts with obtaining the e-commerce stores sales data, typically stored in an Excel files format.  **Data Transformation:** Power Query Editor is utilized to perform data cleaning and transformation tasks.  **Data Modeling:** The transformed data is then modeled using Power BI’s Modeling capabilities for creating One to Many relationships between two different tables.  **DAX Queries:** It used to create calculated columns, measures, and calculated tables for performing advanced calculations.  **Dashboard Creation:** **KPI’s, cards, filters, slicers** and different types of charts are added to the dashboard to provide a comprehensive view of the sales data.  **User Interaction:** The dashboard is designed to be **user-interactive**, allowing users to **filter** and **drill** down into specific aspects of the data  GitHub Link |
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