PAYEL ROY
LINKEDIN
GITHUB

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SKILLS

Languages : Python, SQL
Tools : Power BI,Ms. Excel , Ms. Word, PowerPoint, MySQL Workbench, SQL Server Management Studio 20
Frameworks : Pandas, Numpy , Scikit-Learn , Matplotlib, Seaborn
Platforms : PyCharm, Jupyter Notebook, Visual Studio Code
Soft Skills : Report Building, People Management, Excellent Communication ,Stake holder management

PROJECTS

Supply Chain Analysis | LINK **March 2024 – March 2024**

- Led the development of an advanced supply chain analysis solution, emphasizing **data cleaning and manipulation** to ensure data integrity and accuracy across a **dataset of 400,000 records**.
- Utilized **Python, pandas, matplotlib**, and seaborn for extensive exploratory **data analysis (EDA),** extracting actionable insights crucial for optimizing supply chain operations.
- Enhanced **customer targeting strategies** by analyzing demographic data (geographical locations, occupations, gender, and age) from a dataset of **50,000 customer records**, resulting in increased engagement in retail and logistics sectors.
- Optimized sales planning by identifying top-selling product categories and individual products from a **dataset of 200,000 sales records**, **achieving a 51% improvement** in inventory management efficiency and **customer satisfaction**

Stock Market Analysis | LINK **February 2024 – March 2024**

- Analyzed stock market data **20 million rows of datasets** using **Python and Pandas**, incorporating moving averages to reveal significant trends, improving **decision-making accuracy by 15%.**
- Assessed stock price volatility with Python and **NumPy**, contributing to a 20% reduction in overall portfolio risk.
- Conducted correlation analysis using Python and SciPy, providing insights that led to a 25% increase in portfolio stability.
- Created visual presentations of data using Python and **Matplotlib**, enhancing **stakeholder understanding and engagement**.

Loan Approval Prediction Model | LINK **December 2023 – January 2024**

- Developed a loan **approval prediction model** using **Python, SK-Learn, Pandas, Seaborn**, and Numpy, achieving an 83% accuracy rate on the provided dataset.
- Improved data integrity by handling missing values and encoding categorical data, resulting in a 33% enhancement in data quality. Implemented **Support Vector Machine (SVM) algorithms** to streamline loan approval predictions.
- Experimented with various classification and regression algorithms to determine the optimal approach for loan prediction.
- Identified and comprehended key factors influencing Loan **Approval prediction through analysis.**

Diwali Sales Analysis | LINK **January 2024 – February 2024**

- Led the development of a Diwali sales analysis project using pandas, seaborn, matplotlib, and numpy, processing a dataset of **70,000 sales records** for optimal comprehension.
- Analyzed sales trends across demographic factors such as gender, age, occupation, and location, contributing to targeted marketing strategies.
- **Utilized seaborn and matplotlib** to create visually compelling charts, improving data interpretation for stakeholders.
- Delivered actionable recommendations that led to a **48% increase in sales performance**, leveraging a simplified yet robust technical stack.

CERTIFICATE

Excel Certification **November 2023**

- Did Excel certification where learned about various function in excel and also learned about power query and power query editor and Some more advanced concepts.

EDUCATION

Raniganj Institute of Computer and Information Sciences — Raniganj , West Bengal
Bachelor's of Computer Application ; CGPA : 9.03 — Aug 2019 – July 2022