PAYEL ROY
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EDUCATION

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

SKILLS SUMMARY

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

PROJECTS

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

- Deployed a loan approval prediction model using Python, SK-Learn, Pandas, Seaborn, and Numpy, achieving an accuracy rate of 83%.
- Managed data integrity by handling missing values and encoding categorical values, enhancing quality by 33%. Applied Support Vector Machine (SVM) algorithms to predict loan approval, simplifying decision-making.
- Conducted experiments with both classification and regression algorithms to identify the most suitable approach.
- Analyzed and understood key factors influencing Loan Approval prediction, resulting in a 10% improvement in accuracy.

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

- Developed a stock market analysis tool using Python and Pandas, integrating moving averages to reveal significant stock price trends, leading to a 15% increase in accurate decision-making processes.
- Employed Python and NumPy to assess stock price volatility, contributing to a 20% reduction in overall portfolio risk.
- Utilized Python and SciPy for correlation analysis among stock prices, delivering actionable insights into diversification opportunities and contributing to a 25% increase in portfolio stability.
- Used Python and Matplotlib to create visually engaging presentations of stock market data, resulting in a 20% increase in stakeholder understanding and engagement.

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

- Spearheaded the development of an advanced supply chain analysis solution, prioritizing data cleaning and manipulation to achieve a 20% improvement in data integrity and accuracy.
- Leveraged Python, pandas, matplotlib, and seaborn for comprehensive exploratory data analysis (EDA), extracting actionable insights crucial for achieving a 15% optimization in the supply chain.
- Enhanced customer targeting strategies by identifying potential customers based on geographical locations, occupations, gender, and age demographics, resulting in a 25% increase in engagement within the retail and logistics sectors..
- Optimized sales planning through the identification of top-selling product categories and individual products, leading to 51% improvement in inventory management efficiency and customer satisfaction.

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

- Led the development of a Diwali sales analysis project utilizing pandas, seaborn, matplotlib, and numpy, resulting in a 30% reduction in data processing time for optimal comprehension.
- Analyzed sales trends based on demographic factors including gender, age, occupation, and location, contributing to targeted marketing strategies that led to a 15% increase in sales conversion rates.
- Applied seaborn and matplotlib to generate visually engaging charts, thereby enhancing data interpretation for stakeholders and improving decision-making efficiency by 20%.
- Delivered actionable recommendations resulting in 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 advance concepts.