Nirmal Raj

Data Scientist

PROFILE

Aspiring Data Scientist with a strong foundation in data analysis, machine learning, and statistical modeling. Completed the Guvi Data Science course, gaining hands-on experience in working with large datasets (100K+ rows), feature engineering, and predictive modeling. Skilled in data cleaning, preprocessing, and automation to improve workflow efficiency. Passionate about leveraging data-driven insights to solve real-world problems.

SKILLS

Python | SQL | Data visualization | Machine Learning | MongoDB | Power BI | NumPy | Scikit-Learn | Statistics & Probability | Matplotlib & Seaborn

PROJECTS

YouTube Data Harvesting and Warehousing using SQL and Streamlit,

Skills Used: Python, SQL, Streamlit, YouTube API, Pandas, ETL

- Developed a Streamlit application to collect, analyze, and visualize YouTube channel data using the YouTube API.
- Extracted, transformed, and loaded (ETL) data into a PostgreSQL database for efficient querying.
- Optimized SQL queries to improve data retrieval speed and enhance application performance.
- Analyzed 100K+ data points to provide actionable insights for content strategy.

PhonePe Pulse Data Visualization and Exploration: A User-Friendly Tool Using Streamlit and Plotly,

Skills Used: Streamlit, Plotly, Python, Pandas, Data Visualization

- Developed an interactive data visualization tool using Streamlit and Plotly to explore 4-5 lakh PhonePe Pulse transactions, highlighting transaction trends and user behavior.
- Preprocessed data for high-quality, accurate visualizations.
- Improved decision-making by 20% through interactive dashboards.
- Enabled 100+ non-technical users to easily explore and analyze data.

Customer Conversion Prediction - Insurance,

Skills Used: Python, Machine Learning, Pandas, Scikit-Learn, Data Preprocessing

- Developed a predictive model achieving 89.7% accuracy on 45210 customer records.
- Cleaned and preprocessed 100K+ customer data for accurate predictions.
- Implemented and compared **Logistic Regression**, **Decision Trees**, and **Random Forest**, selecting the best-performing model.
- Evaluated performance with precision (0.95), recall (0.59), and F1 score (0.58) for reliable results.

CERTIFICATES

• Master in Data Science - Guvi • Power BI - Guvi

EDUCATION

IIT-M Advanced Programming Professional & Master Data Science, IIT-M GUVI 2024 – 2025

Master of Science in Mathematics., AVC college 2019 – 2021

PROFESSIONAL EXPERIENCE

Journal Coordinator, Technoarete Groups

2023 - 2024

- Worked with large datasets of **client information**, analyzing purchasing patterns to identify key insights.
- Discovered that most customers preferred to buy journals in the **10K to 20K price range** and recommended focusing on this segment to drive sales.
- Collaborated with the team to implement this strategy, leading to a **200% increase in revenue** within 3-4 months.