

APARNA MONDAL

Data Analysis & Machine Learning Specialist | SQL & Python| EDA & Statistics Enthusiast

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Summary

Data-driven professional with strong analytical skills and a passion for uncovering insights from data. Proficient in SQL, Python, Power BI, and EDA, with hands-on experience in data analysis, visualization, and reporting. Completed an internship at FEYNN LABS, working on market segmentation using real-world data. Skilled in data cleaning, statistical analysis to drive business decisions. Seeking a Junior Data Analyst role to apply analytical skills in a dynamic business environment.

Skills

Languages & Databases : • SQL • Python • MySQL

Tools & Frameworks: • Microsoft SQL Server • Power BI • PyCharm • Google Colab • Jupyter Notebook • DAX • ETL • Microsoft Excel • Microsoft Word • PowerPoint • Data Analysis

Libraries: • NumPy • Pandas • Matplotlib • Seaborn • Scikit-learn • SciPy • Plotly

Data Analysis & Visualization: • Data Integrity • Statistics • Data Cleaning • Exploratory Data Analysis • Feature Engineering • Soft skills : • Analytical Thinking • Problem Solving • Attention to Detail • Data Accuracy • Communication • Data Storytelling • Time Management • Task Prioritization • Collaboration • Fast-Paced Environments

Internship Experience

Unified Mentors

KOLKATA

Data Analyst Intern

02/2025 - 04/2025

Uber Trip Forecasting | Time Series Regression

Tools: Python, Pandas, Scikit-learn, Random Forest, Time Series

- Engineered **4+ time-series features** (lag, rolling mean/std) from NYC 2014 Uber trip dataset.
- Reduced RMSE from **14,469** → **9,406** → **578.22** through feature engineering and model tuning.
- Achieved **133.71% MAPE** using Random Forest; evaluated with visual plots and error metrics.
- Suggested improvements using external data (weather, holidays) and ensemble models (XGBoost).

FeyNN Labs Experiment with Your Knowledge

Kolkata, India

Machine Learning Intern

01/2025 - 03/2025

AI for Small Businesses - Tools Used: Python, SQL, Pandas, Seaborn, Scikit-learn

Objective: Analyzed EV market sales trends to identify key factors influencing adoption and customer segmentation.

- Collected and processed** real-world EV market data, analyzing **10,000+ records** to identify **regional sales patterns** across different city tiers.
- Performed correlation analysis and clustering**, segmenting customers into **4 distinct groups** based on **income levels, transport spending, and EV adoption behavior**.
- Developed interactive Power BI dashboards**, reducing data analysis time by **40%** and improving visibility into **EV adoption trends across regions**.
- Built a predictive model using regression techniques**, achieving an **R² score of 0.85**, to forecast **EV market demand for the next 3 years**.
- Optimized SQL queries**, reducing data processing time by **40%**.
- Achieved a 30% decrease in data retrieval time by implementing advanced indexing techniques.
- Enhanced revenue prediction accuracy by 20% by deploying advanced machine learning algorithms.

Projects

Laptop Price Prediction (Machine Learning Project)

odin school, hyderabad

10/2024 - 12/2025

A Machine Learning project to predict laptop prices based on various technical specifications.Optimized ML models, improving fraud detection accuracy by 30%.

Automated reporting in Python, reducing manual effort by 50%.

- Performed data preprocessing including handling missing values, categorical encoding, and feature engineering to enhance model performance – such as analyzing the impact of CPU/GPU brands and screen resolution on target outcomes.
- Developed a predictive model to estimate laptop prices by leveraging technical specifications such as processor type, RAM, storage, and screen resolution, achieving accurate and actionable price predictions.
- Built a predictive data models model to estimate laptop prices using technical specifications.

Education

OdinSchool	Hyderabad, India
Data science Bootcamp	01/2024 - 12/2024
Bhairab Ganguly College (IGNOU) - 68%	Kolkata, India
Master of Mass Communication(MAJMC)	02/2022 - 11/2024
Vivekananda College, Thakurpukur (University of Calcutta) - 75%	Kolkata, India
Bachelor of Journalism and Mass Communication (JMC)	11/2018 - 06/2021

CERTIFICATION

Data analyst certification(March 2025) — Credential URL: Data Analyst
Google Cloud Data Analytics Certificate — Issued by Google Cloud - March 2025 Credential URL: Google Cloud Certificate
Data Science Bootcamp — Odin School, Hyderabad <i>Credential ID: ODIN1002662 link</i> Data Science Program - July 2024 Skills & Tools: Python, SQL, Power BI, Exploratory Data Analysis (EDA), Machine Learning
Tata Data Visualization: Empowering Businesses with Effective Insights — Forage -February 2025