NIVEDITA PATHAK

Data Science Professional

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SUMMARY

I am an analytical and detail-oriented data science professional with expertise in Python, R, and SQL. I excel in end-to-end data workflows, from cleaning and analysis to visualization and deriving predictive insights. My passion lies in uncovering patterns and optimizing systems to provide evidence-based solutions. I strive to leverage my skills to contribute to impactful projects in data science.

EXPERIENCE

Summer Intern

CNG Agrocare Pvt. Ltd

📅 05/2023 - 07/2023   📍 Kolkata

A company focused on agricultural technology and solutions

- Analyzed crop-wise water requirements and irrigation parameters using technical datasets to support efficient system design
- Performed calculations for dripper selection, pipeline layout, and material estimation, improving decision-making accuracy through data-driven methods
- Evaluated system efficiency and identified optimization opportunities to improve water-use performance using analytical reasoning and structured reporting
- Gained hands-on experience in interpreting field data, preparing technical reports, and supporting planning activities using quantitative analysis.

PROJECTS

Performance Evaluation of Arsenic Removal Plants

📅 08/2024 - 05/2025   📍 **IIT KGP**

Evaluation project focused on assessing the performance of arsenic removal plants

- Collected and analyzed data from 52 plants across 4 districts
- Conducted sampling, validation, and R-based meta-analysis
- Visualized performance indicators using advanced statistical tools

Netflix Data Analytics Using SQL

https://github.com/Nivedita2008/Netflix-Data-Analytics-Project-Using-SQL

- Performed detailed data analysis on the Netflix dataset to identify the top 10 actors appearing in the highest number of India-produced movies, supporting insight-driven decision-making.
- Cleaned and transformed semi-structured cast data using string_to_array() and unnest() to normalize text fields for accurate analysis.
- Applied advanced SQL operations including aggregation, grouping, filtering, and ranking to extract meaningful patterns from large datasets.
- Demonstrated proficiency in data wrangling, exploratory data analysis (EDA), and dataset optimization in PostgreSQL.
- Highlighted analytical thinking and problem-solving in working with complex, messy data.

Excel Data Analytics – Sales Data Analysis

- Analyzed sales data.
- Used Pivot Tables, charts, slicers to study trends & performance.
- Created interactive dashboard highlighting sales KPIs.
- Strengthened Excel-based analytics and dashboard development skills.

LANGUAGE

English	Intermediate
Hindi	Native

SKILLS

Programming: Python (Pandas, NumPy, Matplotlib, Seaborn), SQL, R (basic)

Tools: Power BI, Tableau, Excel (Pivot Tables, VLOOKUP, Power Query)

Databases: MySQL, PostgreSQL

Data Skills: Data Cleaning, EDA, Statistical Analysis, Regression, Hypothesis Testing

Others: Git, Technical Documentation, Problem-Solving, Communication

CERTIFICATIONS

PYTHON
SQL
EXCEL
C Programming

EDUCATION

M.Tech

Indian Institute of Technology, Kharagpur

📅 08/2023 - 05/2024   📍 Kharagpur, WB

B.Tech

MGCGV Chitrakoot

📅 08/2018 - 05/2022   📍 Chitrakoot, MP