

KARAN DEWANGAN

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SUMMARY

A detail-oriented Data Scientist with a strong foundation in statistics and machine learning, graduating with an MSc in Mathematics and Computing from IIT Bhilai. Proficient in Python, SQL, and ML libraries including Scikit-learn, TensorFlow, and PyTorch. Experienced in developing and optimizing predictive models and eager to build real-world AI products.

ADDITIONAL INFORMATION

Technical Skills

- **Programming & Scripting:** Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn), SQL
- **Data Analysis & Statistics:** Exploratory Data Analysis (EDA), Statistical Modelings, KPI Tracking, A/B Testing, Predictive Modeling, Feature Engineering.
- **Business Intelligence & Visualization:** Power BI, Excel, Business Intelligence, Reporting.
- **ETL & Data Collection:** ETL Pipelines, API Integration (Google Drive), Data Automation, Power Automate, Data Cleaning.
- **Soft Skills:** Business Communication, business decision-making and collaboration, Problem-Solving.
- **Machine Learning & Modeling:** Predictive Modeling, Supervised & Unsupervised Learning, Scikit-learn, TensorFlow, PyTorch

Certification

- Data Analysis Using Power BI, Campusx.com | Completed: July 2025

Achievements

- All India Rank 493 in IIT JAM – Mathematics (2023)

EDUCATION

Master of Science in Mathematics and Computing

- IIT Bhilai, Chhattisgarh
- Duration: Aug 2023 – May 2025
- CGPA: 6.8

Bachelor of Science in Computer Science

- CCIT, Raipur – Pt.Ravishankar Shukla University, Chhattisgarh
- Duration: Aug 2019 – May 2022
- Percentage: 73.78%

PROJECTS

Automated Financial Reporting Pipeline (Outlook to Power BI)

- Designed an end-to-end automated workflow integrating Outlook, Power Automate, and Google Drive API.
- Automated data extraction, cleaning, and consolidation using Python, improving accuracy by 90%.
- Developed Power BI dashboards with KPIs (income, LTV, segmentation) used for financial planning and decisions.
- Reduced manual reporting effort significantly, ensuring faster and reliable insights.
- The predictive model demonstrated the ability to forecast cancer severity, showcasing hands-on experience in building a complete machine learning solution.

Comprehensive EDA and Inferential Analysis of Global Cancer Data using Python

- Preprocessed and cleaned a large dataset of 50,000 records to prepare it for modeling.
- Developed, tested, and optimized a machine learning model (Linear Regression) using Python and Scikit-learn to predict cancer severity.
- Documented findings and collaborated with a hypothetical team to present results, showcasing an end-to-end understanding of the machine learning workflow.

Pizza Sales Analysis using SQL

- Conducted retail sales analysis on pizza delivery dataset using advanced SQL queries.
- Derived insights on top-performing products, revenue trends, and customer preferences.
- Applied window functions and aggregations to calculate cumulative revenue and category contribution.
- Delivered findings to support marketing optimization and demand forecasting.