

# KARAN DEWANGAN

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[GitHub.com](#)

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## SUMMARY

- MSc Mathematics & Computing candidate (IIT Bhilai) skilled in Data Science, AI/ML, and BI for solving real-world challenges.
- Proficient in Python, SQL, Power BI, TensorFlow, PyTorch, Scikit-learn, with expertise in Predictive Modeling & Supervised/Unsupervised Learning.
- Built solutions for attrition risk, churn prediction, and automated reporting, improving decision-making and efficiency.
- Strong communicator with ability to apply AI/ML to governance, education, healthcare, and finance domains.

## Technical Skills

- **Programming & Analytics:** Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn), SQL
- **Machine Learning & AI:** Predictive Modeling, Hypothesis Testing, Data Mining, Supervised & Unsupervised Learning, Scikit-learn, TensorFlow, PyTorch
- **Data Engineering & BI Tools:** Power BI (DAX, Power Query/M-Query), Excel, APIs, ETL Pipelines, Power Automate, Google Drive API
- **Data Science & Analytics:** Exploratory Data Analysis (EDA), KPI Reporting, Statistical Modeling, Churn Prediction, Attrition Risk Analysis
- **Soft Skills:** Analytical Thinking, Governance & Public Policy Orientation, Stakeholder Communication, Problem Solving, Collaboration

## PROJECTS

### Automated Financial Reporting Pipeline (Outlook to Power BI) [Link](#)

June 2025 – July 2025

- 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.

### Customer Churn Prediction for a Bank [Link](#)

July 2025 – Sep 2025

- Built customer churn prediction models (Logistic Regression, Random Forest, XGBoost) and selected best performer.
- Performed EDA, feature engineering, and handled class imbalance to improve accuracy.
- Identified key churn drivers (age, geography, balance) for business insights.
- Implemented workflow in Python (Scikit-learn, Pandas) with clear visualizations.

### Pizza Sales Analysis using SQL [Link](#)

June 2025 – July 2025

- 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.

## EDUCATION

### Master of Science in Mathematics and Computing

Aug 2023 – May 2025

- IIT Bhilai, Chhattisgarh
- CGPA: 6.8

### Bachelor of Science in Computer Science

Aug 2019 – May 2022

- CCIT, Raipur – Pt.Ravishankar Shukla University, Chhattisgarh
- Percentage: 73.78%

## Certifications And Achievement

- All India Rank 493 in IIT JAM – Mathematics (2023)
- Data Analysis Using Power BI, Campusx.com | Completed: July 2025