

KARAN DEWANGAN

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[GitHub.com](#)

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SUMMARY

- MSc Mathematics & Computing candidate at IIT Bhilai with strong foundation in Python scripting, data preparation, and ML model evaluation.
- Hands-on experience in EDA, predictive modeling, churn/attrition analysis, and automated reporting pipelines using Python, SQL, and Power BI.
- Skilled in data validation, pipeline optimization, and testing, with ability to work independently and deliver accurate, high-quality outputs.
- Strong analytical problem-solving mindset with proven ability to apply AI/ML techniques in business, governance, and financial domains.

Technical Skills

- **Programming & Scripting:** Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn), SQL
- **AI & Machine Learning:** Supervised & Unsupervised Learning, Model Evaluation, Predictive Analytics, TensorFlow, PyTorch
- **Data Preparation & Engineering:** Data Cleaning, ETL Pipelines, Data Validation, APIs, Power Automate, Google Drive API
- **Analytics & BI Tools:** Power BI (DAX, Power Query/M), Excel, KPI Reporting, Dashboard Development
- **Core Competencies:** Data Preprocessing, Feature Engineering, Statistical Modeling, Problem Solving, Collaboration

Experience

Codec Technologies Pvt. Ltd.

July 2025 – Sep 2025

Data Analytics Internship

- Conducted EDA in Python to identify key employee turnover drivers.
- Built and deployed an XGBoost model generating individual attrition risk scores from HR data.
- Created an interactive Power BI dashboard with KPIs on attrition rates and departmental risk for targeted HR retention strategies.
- Developed a customer churn prediction pipeline, benchmarking ML algorithms (Logistic Regression, Random Forest, XGBoost) to select the best model for proactive retention campaigns.

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.

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