

# ABHISHEK MARIGERI

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## PROFESSIONAL SUMMARY

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Data Science ML enthusiast with hands-on experience in Python, pandas, scikit-learn, SQL and data visualization. Skilled in building predictive models, doing EDA, feature engineering and model evaluation, with solid understanding of supervised/unsupervised learning to turn raw data into actionable insights.

## SKILLS

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**Programming:** Python, OOPS in Python, Basics(HTML,CSS,C++)

**Machine Learning:** Linear Regression, Logistic Regression, Decision Tree, Random Forest, XGBoost

**Databases:** MySQL, PostgreSQL

**Data Applications:** Data Analysis (SQL, Excel, Power BI, Statistical Analysis), EDA

**Tools:** Git, Jupyter Notebook, VS Code

## EDUCATION

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### MVJ COLLEGE OF ENGINEERING

Dec 2022 – May 2026

Bachelor of Engineering, Electronics and Communication Engineering

• **GPA:** 8.20 / 10

## EXPERIENCE

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### Data Science Intern — Shamgar Software Solutions

OCT 2025 – Present

- Performed **EDA, feature engineering**, tuned models using **hyperparameter optimization**, and applied best **ML practices** on real-world datasets.
- Collaborated with the data science team in an **Agile environment** to **build, optimize, and deploy** end-to-end **ML pipelines**.

## PROJECTS

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### Bridge Health Monitoring and Crack Detection with Machine Learning

- Developed a Bridge Health Crack Detection System using accelerometer data and a **Linear Regression model** to predict **pitch-angle misalignment**, generating alerts when thresholds (**180°**) are crossed.
- Integrated a **camera module with Gemini API** for real-time crack identification, delivering dual-layer monitoring, **2× higher detection accuracy**, and actionable insights for civil engineers.

### Exploratory Data Analysis of Customer Dataset with Python

- Built a Sales Analytics Dashboard in Python to analyze **50,000+** sales records and core **KPIs** (revenue growth, top products, customer segments), improving insight generation by **35%**..
- Conducted data-driven churn analysis to identify high-risk customers and retention opportunities, resulting in a **12%** increase in customer retention strategy effectiveness.

### Olympics Data Analysis using SQL

- Used advanced **SQL (CTEs, Joins, Window Functions)** on **100,000+** Olympic athlete/medal records to analyze medal distribution, participation trends, and **demographics** (**14 yrs to 72 yrs winners**).
- Ranked countries by **Gold Medal performance** using window functions and generated insights to identify **Top 10** performing nations and overall competitive patterns across Olympic history.

### Credit Card Fraud Detection System using Machine Learning

- Built a **Fraud Detection ML model** in Python with **97%** classification accuracy; performed data pre-processing, feature engineering, and model tuning using **Logistic Regression**.
- Improved fraud detection by analyzing **model errors**, refining **key features**, and enhancing the **data pipeline** with **data cleaning** and **class-imbalance handling** for more reliable fraud identification

## CERTIFICATIONS

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Data Structures and Algorithm Design - SWAYAM NPTEL

Data Science and ML - Apna Collage