

# Deep Makadia

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## SUMMARY

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Computer science student specializing in data analytics. Proficient in Python (Pandas, NumPy) and Power BI, with hands-on experience developing interactive dashboards and providing data-driven recommendations during an internship at Innobyte Technologies. Seeking a Data Analyst role to apply skills in exploratory data analysis and visualization.

## WORK EXPERIENCE

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### Data Analyst Intern – Innobyte Technologies

Jun 2025 – Jul 2025

- Analyzed an Amazon sales dataset of over 128,000 transactions using Python (Pandas, NumPy) to identify key performance drivers.
- Discovered that B2B customers had an 8% higher Average Order Value (AOV) than B2C, identifying a key growth opportunity despite B2B accounting for less than 1% of total sales.
- Created interactive Power BI dashboards to monitor fulfillment KPIs, pinpointing that top-selling states like Maharashtra and Karnataka also had the highest number of unshipped orders.
- Provided actionable recommendations to optimize inventory for top-performing SKUs (M, L, XL sizes in T-shirts), diversify sales channels to mitigate platform dependency, and improve logistics in high-volume regions

## PROJECTS

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### Movie Industry Exploratory Data Analysis

 Demo

**Technologies:** Python, Pandas, NumPy, Matplotlib, Seaborn, Data Visualization

- Performed exploratory data analysis on a movie industry dataset to identify key factors driving box office gross revenue.
- Utilized Python (Pandas, NumPy) to clean and pre-process the data, handling missing values and correcting data types for financial columns.
- Developed data visualizations using Matplotlib and Seaborn, revealing a strong positive correlation of 0.74 between movie budget and gross revenue.
- Analyzed and ranked production companies, demonstrating that major studios like Warner Bros., Universal, and Columbia Pictures consistently produced the highest-grossing films.

### Road Accident

 Demo

**Technologies:** Excel, Power BI , Power BI Editor

- Developed a dynamic Power BI dashboard to analyze road accident data, identifying patterns related to weather, road conditions, and time of day.
- Used Power Query for data cleaning and transformation, and wrote DAX measures to create key performance indicators (KPIs) like total casualties and accident severity rates.
- Designed interactive visualizations, including geospatial maps to pinpoint accident hotspots and slicers for granular, multi-dimensional data filtering.

- The resulting dashboard provided a comprehensive tool for stakeholders to derive actionable insights for targeted road safety improvements.

## Deepfake Image Analysis in Healthcare

 Demo

**Technologies:** Python, PyTorch, Graph Neural Network (GNN), LIME, SHAP, Machine Unlearning

- Designed a **GNN-based framework** integrated with **Explainable AI (XAI)** techniques (LIME & SHAP) to detect synthetic manipulations in CT and MRI scans.
- Improved detection accuracy from **79.72% to 81.12%** through explainability-driven optimization and attention-based relational learning.
- Implemented **Machine Unlearning** for GDPR/HIPAA compliance, enabling privacy-preserving AI with selective data removal.
- Conducted a **comparative evaluation of 22 deepfake detection models**, addressing challenges in interpretability, robustness, and clinical scalability.

## EDUCATION

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B.Tech(CSE) at <b>Institute of Technology Nirma University</b>	2022-2026	(GPA: 7.88/10.0)
Class 12th GSEB	2022	(81.85%)
Class 10th GSEB	2020	(88.00%)

## SCHOLARSHIPS AND COMPETITIVE EXAMS

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District 3rd Rank, GSEB State Scholarship Exam (2018)  
AIR 17420 in Jee Mains 2022 with 98.08 pr

## SKILLS

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<b>Programming &amp; Databases:</b>	Python, SQL, C++, Java (Beginner), MongoDB, PyTorch
<b>Data Analysis &amp; Machine Learning</b>	Pandas, NumPy, Matplotlib, Seaborn, SciPy, Scikit-learn, EDA, Feature Engineering, Hypothesis Testing
<b>BI &amp; Version Control</b>	Power BI, Power Query, DAX, MS office, Tableau
<b>AI &amp; Research Tools</b>	Graph Neural Networks (GNN), Explainable AI (LIME, SHAP), Machine Unlearning, Deep Learning

## CERTIFICATE

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Forage	Tata-GenAI Powered Data Analytics Job Simulation
McKinsey	McKinsey Forward Program (Oct–Dec 2025)
Forage	Deloitte Australia Data Analytics Job Simulation (Sep 2025)
IBM	Data fundamentals(Aug 2025)
IBM	Machine Learning For Data Science Projects (Aug 2025)
Google	Google Analytics Certification (May 2025)