

TANYA MISTRY

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EDUCATION

Northeastern University Masters of Science in Computer Science	May 2026
<u>Coursework:</u> Program Design Paradigm, Database Management Systems, Algorithms, AI	GPA:3.7/4
University of Mumbai Bachelors of Technology in Information Technology and Minors in Data Science	June 2024
<u>Coursework:</u> Database Management, Big Data, Data Mining, Machine Learning, Artificial Intelligence	GPA:9/10

TECHNICAL SKILLS

Languages: Python, SQL, R, Spark, Java, JavaScript

Libraries and Frameworks: Pandas, NumPy, Scikit-learn, SciPy, NLTK, Seaborn, Matplotlib

Database Tools: MS SQL Server, MySQL, MS Access, MongoDB

Data Analysis and Visualization: Tableau, MS Power BI, MS Advanced Excel, MS Powerpoint

PROFESSIONAL EXPERIENCE

Data Analyst Intern | One Hand Clap **June 2023 - June 2024**

- Analyzed social media metrics by performing comparative analytics in **Tableau** that led to **8%** increase in engagement
- Extracted and analyzed over **1,500 data points** generated weekly and monthly using **MS SQL and MS Excel** delivering impactful reports with actionable insights on social media analytics for clients: **Amazon Prime Video** and **Bumble**
- Prepared **50+ reports** by performing in-depth research on other brands' social media strategies using **Python** scripts
- Collaborated with cross functional teams to communicate upcoming trends and strategies to boost Amazon Prime Video's user engagement

Research and Development Intern | Your Career Folio **September 2022 – November 2022**

- Examined **~30 competitor strategies** by identifying key areas for improvement and leading to a **12%** increase in service
- Leveraged MS Power BI to visualize competitor and industry data and developed **5 innovative solutions** that improved career guidance offerings
- Created focused solutions by integrating marketing insights with CRM data to promote new initiatives which led to a **20%** improvement in client servicing

Research Intern | BAVCH EduTech **August 2022 – November 2022**

- Conducted data research on assigned topics and utilized **MS Excel** to compile and assess data which produced detailed reports to support strategy development
- Mentored a team of **50 interns** by teaching them data collection, analysis techniques, and report writing using Excel which improved their proficiency in research methodologies and ensuring high-quality report delivery

PROJECTS AND PUBLICATION

Spotify and Netflix Analysis | Python, Pandas, NumPy, Seaborn, Matplotlib, Jupyter Notebook

- Conducted in-depth **exploratory data analysis** to uncover insights into user behavior, including top artists, popular genres, and the impact of tempo on song popularity
- Optimized data preprocessing workflows by utilizing Python libraries like **Pandas** and **NumPy** to process over **1,500 records** to streamline previously cumbersome tasks related to large-scale dataset manipulation
- Visualized complex data patterns and trends using **Seaborn** and **Matplotlib** libraries to communicate complex patterns and trend insights
- Applied **statistical techniques** to evaluate correlations and trends and generate **predictive insights**

Chart to Text | Python, TensorFlow, PyTorch, MixtralMoE, LLama 7b, Gemma, OpenCV

- Architected a system using **Large Language Models** to analyze chart images and extract insights by translating visuals into human-readable summaries
- Implemented **feature extraction algorithms** for axis calibration which allowed users to interact with charts by selecting specific regions for detailed analysis
- Integrated models such as **MixtralMoE, LLama 7b, and Gemma** to generate text-based insights

Retail Sales Analysis Dashboard | Power BI, SQL, Excel, DAX

- Built a Power BI dashboard to analyse sales performance metrics across **12 store locations** and **50+ product categories**
- Processed and cleaned **15,000+ records** using SQL to enable accurate analysis of KPIs like monthly sales growth and category profitability
- Automated weekly data refreshes and created interactive filters for region, category, and time which reduced manual reporting effort by **40%**

LEADERSHIP

- Mentored **10 sophomore students** in their Innovative Product Development course by offering guidance, advice, and support to address their doubts and challenges