Monil Mehta

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PROFESSIONAL SUMMARY

Data Analyst with proven experience translating data into actionable insights that improve product performance and operational efficiency. Skilled in SQL, Power BI, and Python for building dashboards, automating reporting workflows, and conducting root-cause and trend analysis. Adept at collaborating with cross-functional teams to drive data-informed decisions, streamline processes, and enhance delivery through structured analytics and process optimization.

EDUCATION

University of Maryland, Baltimore County — **Baltimore, Maryland, USA**
M.S. Information Systems with Specialization in Data Science and AI — May 2024

Mumbai University — **Mumbai, India**
B.Tech. Computer Science and Engineering — Nov 2020

TECHNICAL SKILLS

Data Tools & Visualization - Power BI, Tableau, Microsoft Fabrics, Alteryx, Google Analytics.
Languages & Scripting - SQL, Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn), R.
Databases - MySQL, PostgreSQL, RDBMS, Oracle, MongoDB.
Data Techniques - Data Cleaning, Data Modeling, Hypothesis Testing, Regression, Clustering, Predictive Modeling.
Automation & Reporting - Excel (VLOOKUP, Macros), Jupyter Notebook, Power Automate.
Workflow & Platform - Git/GitHub, VS Studio, Jira.

WORK EXPERIENCE

Product Analyst / *Robot Toolworx, New Jersey, USA* — **Jul 2025 - Nov 2025**
- Reduced system failure rate by 40% through root-cause analysis of 150+ error logs, leading to the implementation of rule-based input validation and improved exception handling in key workflows.
- Increased QA throughput by 60% by designing a severity-based defect classification system that accelerated triage cycles and improved sprint planning accuracy for engineering teams.
- Automated daily bug summaries from Jira using Power Automate and HTML formatting, cutting manual reporting time by 90% and improving issue traceability across engineering and QA teams.
- Reduced QA rework by 35% by auditing 30+ Figma design flows against live product behavior and correcting documentation gaps that previously caused design-to-dev mismatches.

Product Analyst / *Eloomin, San Francisco, USA* — **Dec 2024 - Jul 2025**
- Analyzed 500 + user sessions to uncover friction points in onboarding and activation, increasing completion and feature adoption rates and accelerating delivery by two weeks.
- Collaborated with designers, researchers, and developers to build PRDs, sprint plans, and roadmaps in Jira and applied AI-driven Descriptive (Clustering) modeling to uncover key friction points in the user journey.
- Developed an interactive Power BI dashboard to track DAU, session duration, onboarding drop-offs, and subscription conversions, and implemented predictive models to forecast user retention and content engagement trends.
- Continuously analyzing 500+ onboarding sessions and evolving user engagement clusters to refine personalization strategies and prioritize product development.

Product Analyst (Pro-Bono Intern) | *Jain Alert Inc., New Jersey, USA* — **Aug 2024 - Dec 2024**
- Increased student participation by 30%, driving 1,200+ new attendees and converting 754 attendees into active members through behavioral analysis and targeted outreach to under-engaged international student groups.
- Used SQL to clean and analyze 3+ years of historical engagement data, and built Power BI dashboards to visualize participation trends across event types and user demographics.

Data Analyst | *Residential Life - UMBC, Baltimore, USA* — **Aug 2023 - May 2024**
- Identified high-crime transit zones affecting 3,000+ student commuters by analyzing 50,000+ Baltimore City crime reports, helping Residential Life develop targeted safety communications and resource planning.
- Designed heat maps and visual dashboards (Folium, bar plots) to visualize high-risk neighborhoods and peak crime hours, and presented key insights to Residential Life staff to support student safety initiatives.

PROJECTS

Customer Segmentation by Personality - **Tools Used:** Python (Pandas, Scikit-learn, Seaborn, Matplotlib), Kaggle Dataset
Performed customer segmentation using Agglomerative and K-Means clustering on a Kaggle dataset after conducting data cleaning, outlier removal, and PCA-based dimensionality reduction in Python. Visualized insights through Seaborn and Matplotlib, identifying four distinct customer groups that informed targeted marketing strategies and customer loyalty programs.

Predict Future Sales - **Tools Used**: Python (Pandas, Scikit-learn, XGBoost, Matplotlib, Seaborn)
Developed predictive models using Python to forecast monthly sales across over 1,000 product-store combinations, achieving a Root Mean Squared Error (RMSE) of 0.89. Conducted thorough data preprocessing, feature engineering, and trend analysis to improve model accuracy. Utilized Matplotlib and Seaborn to visualize sales trends, seasonality patterns, and anomalies, generating actionable insights that enhanced inventory management, revenue planning, and promotional pricing strategies.