

TANMOY GHATAK

Aspiring Data Analyst

☎ 9674346700 | ✉ aloke8459@gmail.com | 📍 Kolkata, India | [LinkedIn](#) | [GitHub](#)

PROFESSIONAL SUMMARY

Detail-oriented professional transitioning from game development to data analytics, bringing strong technical foundations in programming, problem-solving, and systems thinking. Proficient in Python, SQL, Power BI, Tableau, and Excel with hands-on project experience in HR analytics, sales reporting, and user behavior analysis. Eager to leverage analytical skills and technical expertise to derive actionable insights from complex datasets.

TECHNICAL SKILLS

Programming Languages	Python, SQL
Data Analysis & Visualization	Power BI, Tableau, Microsoft Excel
Python Libraries	pandas, NumPy, scikit-learn, matplotlib
Machine Learning	Supervised Learning, Unsupervised Learning

DATA ANALYSIS PROJECTS

HR Attrition Analysis [\[GitHub\]](#)

Tools: Tableau Desktop, CSV Data, Interactive Dashboards, HR Analytics

- Built a comprehensive multi-page Tableau dashboard analyzing attrition patterns across 4,410 employees, achieving a 16.12% overall attrition rate with drill-down by department, gender, age group, and salary band
- Identified a critical gender disparity — female attrition at 36.5% vs. 16.5% for males — and flagged R&D as the highest-risk department at 28.27% attrition, enabling targeted retention strategy
- Designed KPI cards, pie charts, area charts, and interactive filters allowing HR stakeholders to dynamically explore trends and drill down into at-risk employee segments
- Delivered a business insights presentation with actionable retention recommendations projected to reduce overall attrition from 16.12% to 10%

E-Commerce Sales Report using Power BI [\[GitHub\]](#)

Tools: Microsoft Power BI, DAX, Power Query, CSV Data Modeling

- Designed a multi-page interactive Power BI dashboard analyzing 500+ e-commerce orders across Indian states, product categories (Electronics, Furniture, Clothing), and payment methods (COD, EMI, UPI, Credit Card)
- Built a relational data model linking Orders and Details tables via Order ID and wrote DAX measures for total revenue, profit margin, average order value, and MTD/YoY calculations
- Identified loss-making product sub-categories (Saree, Hankerchief) dragging overall margins, and recommended pricing/sourcing changes projected to improve profit margin by 5–10%
- Created geographic, payment method, and category deep-dive pages with dynamic slicers and cross-filtering, empowering business and finance teams with self-service analytics

Mobile App User Behavior Analysis [\[GitHub\]](#)

Tools: Microsoft Excel, Power Query, Pivot Tables, Dashboard Design

- Analyzed behavioral data of 700 mobile app users across 4 age groups and 2 genders, tracking 11 metrics including app usage time, screen time, data consumption, battery drain, and apps installed
- Used Power Query for data cleaning and transformation, and built multiple pivot tables to uncover strong positive correlations between app usage time and data consumption ($r = 0.85$) and apps installed ($r = 0.82$)

- Classified users into 5 engagement tiers (Rarely to Always) and surfaced a key insight that the 46–59 age group had the highest screen time (5.5 hrs/day), challenging common assumptions about older users
- Delivered an interactive Excel dashboard with KPI cards, scatter plots, grouped bar charts, and demographic filters to guide product and marketing decision-making

PROFESSIONAL EXPERIENCE

Senior Game Developer

MedVR Education | July 2022 – November 2025

- Developed immersive VR and AR educational applications for medical training, demonstrating strong technical problem-solving and systems design skills applicable to complex data structures and algorithms
- Designed and implemented gameplay mechanics and NPC behavior systems, applying logical thinking and pattern recognition skills transferable to data modeling and analysis
- Created advanced animation systems including locomotion, rigging, and procedural animations, requiring mathematical precision and optimization techniques similar to data processing workflows
- Developed user-friendly UI widgets and interactive components, emphasizing user experience principles crucial for creating effective data visualizations and dashboards

EDUCATION

Bachelor of Engineering in Electronics and Communication

JIS College of Engineering, Kalyani | Graduated 2022

CERTIFICATIONS & TRAINING

Completed multiple data analysis courses through Udemy and Coursera covering:

- Python for Data Analysis
- SQL for Data Science
- Machine Learning Fundamentals
- Data Visualization with Power BI