

MOHAMMAD AYAN

Data Analyst | Business Analyst

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PROFESSIONAL SUMMARY

Detail-oriented BCA graduate with strong foundations in Data Analysis, Business Analysis, and Data Science/Machine Learning, skilled in Python, SQL, Excel, Power BI, and MySQL. Experienced in requirement gathering, stakeholder communication, data cleaning, exploratory data analysis (EDA), KPI reporting, dashboard development, and predictive modeling. Adept at translating business problems into analytical solutions — from gathering and documenting requirements (BRD/FRD) to writing SQL queries, building interactive dashboards, and developing machine learning models for forecasting and prediction. Proven ability to generate actionable, data-driven insights that support business decision-making and process improvement. Seeking an entry-level Data Analyst / Business Analyst / Data Scientist role to apply analytical and technical skills toward measurable business impact.

CORE SKILLS

Programming & Database: Python, SQL, MySQL, SQL Queries, Joins, Subqueries, Aggregations
Data Analysis & Processing: Pandas, NumPy, Data Cleaning, Data Preprocessing, Exploratory Data Analysis (EDA), Feature Engineering, Statistical Analysis, Data Validation
Data Visualization & BI Tools: Power BI, Dashboard Development, KPI Reporting, Matplotlib, Seaborn
Excel Analytics: Advanced Excel, Pivot Tables, Charts, VLOOKUP, XLOOKUP, Power Query
Business & Analytical Skills: Requirement Gathering, Business Process Analysis, Stakeholder Reporting, Data-Driven Decision Making
Machine Learning: Supervised Learning, Regression, Classification, Linear Regression, Logistic Regression, Scikit-Learn
Tools & Platforms: Jupyter Notebook, VS Code, Git, GitHub

INTERNSHIP

Data Science Internship — CodeAlpha (Virtual Internship Program)

August 2025

- Completed a virtual internship in Data Science, gaining hands-on exposure to data analysis workflows including data cleaning, exploration, and visualization.
- Applied foundational data science concepts to derive insights from datasets, strengthening skills directly relevant to data analyst roles.

PROJECTS

Customer Shopping Behaviour Analysis

GitHub: github.com/mohammadayan143/Customer_behavior_analysis

- Business Impact:** partnered end-to-end from requirement understanding to insight delivery — cleaned, transformed, and analyzed a customer dataset of 10,000+ records using Python, SQL, and Excel.
- Conducted exploratory data analysis (EDA) to uncover customer behavior patterns, sales trends, and business insights, presenting findings in stakeholder-ready format.
- Wrote optimized SQL queries to extract KPIs and customer metrics, reducing manual reporting effort.
- Deliverable:** designed an interactive Power BI dashboard with KPIs, slicers, and filters, enabling data-driven decisions that informed sales and customer strategy recommendations.

Employee Salary Prediction System | Machine Learning

Live Demo: employee-salary-prediction-ud8x.onrender.com/

- Model Development:** built an end-to-end ML pipeline to predict employee salaries from demographic and professional features, achieving 91.4% R² with a tuned Random Forest Regression model.
- Performed data preprocessing, EDA, feature engineering, and categorical encoding to improve model accuracy and reliability.
- Implemented and benchmarked Linear Regression, Decision Tree, and Random Forest models, selecting the best performer via cross-validation.
- Deployment:** analyzed feature importance to surface key salary drivers and deployed the model as a Flask web application for real-time prediction, deployed live on Render.

EDUCATION

Bachelor of Computer Applications (BCA) — Invertis University

2023 - 2026

Intermediate & High School — St Paul's School

2021 - 2023

CERTIFICATIONS

- Python for Data Science 101 - IBM
- GenAI Powered Data Analytics Job Simulation
- SQL and Relational Databases - IBM