

Alan Joseph Monichan

Data Analyst — BI Developer — SQL & Python Specialist

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PROFESSIONAL SUMMARY

Analytical **Data Analyst** with expertise in **Power BI, SQL Data Modeling, and Python**. Proven track record of delivering **Business Intelligence (BI)** solutions and high-level workshops for **Tata Motors**. Specialist in **ETL workflows**, transforming complex datasets into interactive dashboards and **predictive models** to drive data-informed decision-making.

TECHNICAL SKILLS

Data Visualization: Power BI (Advanced DAX), Tableau, Google Looker Studio, Matplotlib, Seaborn
Data Processing: SQL (PostgreSQL, MySQL), Python (Pandas, NumPy), Excel (Pivot Tables, Power Query)
Statistical Analysis: Predictive Modeling, Regression Analysis, Hypothesis Testing, Scikit-learn, NLP
Tools & Workflow: ETL Pipelines, Git, Docker, Agile/Scrum, React Native (Data Integration)

PROFESSIONAL EXPERIENCE

Junior Project Assistant — CSD, NITK Surathkal Jun 2025 – Present

- Engineered **Power BI** reporting solutions for **Tata Motors**, reducing manual reporting effort by 40%.
- Developed interactive 3D visualizations using **Three.js**, improving metric interpretability by 60%.
- Conducted data analytics workshops for **Govt. of Goa** on AISHE dataset insights.

Virtual Lab Development Intern — NITK Surathkal Jan 2025 – Mar 2025

- Developed **Python automation** scripts to generate synthetic datasets, reducing testing time by 30%.
- Integrated real-time feedback loops to visualize student engagement KPIs and performance metrics.

React Native Developer Intern — Inmakes Learning Hub Oct 2024 – Dec 2024

- Managed data flow for cross-platform apps, optimizing data integrity and reducing latency by 25%.
- Analyzed user interaction logs via **Root Cause Analysis** to resolve performance bottlenecks.

KEY ANALYTICS PROJECTS

Goa Higher Education Dashboard | *Power BI, Python* 🔗

- Cleaned and processed state-level AISHE datasets to visualize Gross Enrollment Ratios.

BMW Parts Inventory System | *Power BI, Excel, SQL* 🔗

- Developed an automated inventory dashboard with **predictive stock alerts** and supplier scorecards.

AI-Powered PDF Insight Extractor | *Gemini AI, Python, NLP* 🔗

- Built an **NLP parsing system** to perform semantic search and trend extraction from unstructured text.

Smartwatch Data Sync System | *React Native, JavaScript, BLE*

- Engineered reliable data transmission protocols via Bluetooth LE for notification processing.

Sales Performance Dashboard | *Power BI, Advanced DAX, SQL*

- Built a KPI tracking system for revenue forecasting, improving regional resource allocation by 15%.

PROFESSIONAL CERTIFICATIONS

- Data Analytics Certification** — **Entri Elevate** (*Illinois Tech & NSDC Partnered*)
- Microsoft Certified: Data Analyst Associate** (Power BI, Data Modeling, DAX)
- Python for Data Science (NPTEL)** | **Introduction to Data Analytics** (Simplilearn)

EDUCATION

Master of Computer Applications (MCA) 2023 – 2025

Mar Athanasios College, Mahatma Gandhi (MG) University

Bachelor of Computer Applications (BCA) 2020 – 2023

Devamatha College, Kannur University