

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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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 <i>Power BI, Python</i>	⌚
<ul style="list-style-type: none">Cleaned and processed state-level AISHE datasets to visualize Gross Enrollment Ratios.	
BMW Parts Inventory System <i>Power BI, Excel, SQL</i>	⌚
<ul style="list-style-type: none">Developed an automated inventory dashboard with predictive stock alerts and supplier scorecards.	
AI-Powered PDF Insight Extractor <i>Gemini AI, Python, NLP</i>	⌚
<ul style="list-style-type: none">Built an NLP parsing system to perform semantic search and trend extraction from unstructured text.	
Smartwatch Data Sync System <i>React Native, JavaScript, BLE</i>	
<ul style="list-style-type: none">Engineered reliable data transmission protocols via Bluetooth LE for notification processing.	
Sales Performance Dashboard <i>Power BI, Advanced DAX, SQL</i>	
<ul style="list-style-type: none">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) Mar Athanasios College, Mahatma Gandhi (MG) University	2023 – 2025
Bachelor of Computer Applications (BCA) Devamatha College, Kannur University	2020 – 2023