



MARCEAN MIHAI-ALEXANDRU

DATA ANALYST & ENGINEER & BI/AI DEVELOPER

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PROFILE

Most dashboards get built and forgotten. I build the ones teams open every morning. Data Analyst & BI/AI Developer, 4+ years, end to end from SQL and data modelling to Power BI and AI-assisted workflows, fluent in both business and engineering so the work actually gets adopted. I turn data into decisions, not just charts. I'm the person who can't walk past a slow query or a confusing dashboard, and I've built a career on fixing exactly that.

SKILLS

CORE CONCEPTS

Star Schema Modeling • ETL • Data Validation & Quality • EDA • RLS • Data Storytelling • CI/CD • Prompt Engineering • AI Agents • AI Workflows • MCP Tools • LLM Guardrails

BI & ANALYTICS

Power BI • DAX • Power Query • Excel • Python • pandas • NumPy • MATLAB

DATA & CLOUD

Microsoft SQL • PostgreSQL • Azure • AWS

AI • ENGINEERING & TOOLS

Claude • Local LLMs • VS Code • Git • GitHub • Linux • VMware

INDUSTRIES

Hospitality & Food Service
Automotive Manufacturing
Industrial Automation & Logistics
Financial Markets & Trading
Retail & E-Commerce
Climate & Weather

LANGUAGES

Romanian (native)
English (professional)
German (basic)

EXPERIENCE

CITY GRILL GROUP • Data Analyst

Nov 2025 - Present • Bucharest, RO

- Build and maintain 5+ semantic models powering 30+ Power BI reports (DAX, Power Query) on sales, cost and operations across 40+ restaurant locations, including several landmark venues with deep roots in Romania's cultural history.
- Partner closely with management to translate business needs into technical reporting requirements, coordinating delivery with outsourcing-partner support teams.
- Author DAX measures modelling KPIs for profitability, labour efficiency, inventory and menu performance, saving management and restaurant-manager teams 35+ hours of manual data analysis every week.
- Build Azure automations and the SQL queries that power the company's internal AI tools.
- Act as the internal Azure administrator (user access, resources and cost monitoring within the company's environment).

AUTOLIV • Data Analyst

Mar 2024 - Feb 2025 • Covasna, RO

- Designed an automated production-data pipeline: Python scripts running inside Ignition (Inductive Automation) pull data from the Leading2Lean (L2L) ERP into Microsoft SQL Server, ready for reporting.
- Built and published Power BI reports on production performance and downtime to Power BI Service, giving operational teams and management a live view for factory decision-making.
- Cut 15+ hours of manual production-data analysis every week for operational teams by automating the ERP-to-dashboard flow.
- Partnered with management to turn shop-floor data into decisions on output, downtime and process improvement.

ARKA • Industrial Production & Reporting

Oct 2022 - Oct 2023 • Braşov, RO

- Configured FanBox electrical cabinets in production (surveillance cameras, routers, door-open and shock-sensor checks) and verified each unit met production specifications before delivery.
- Maintained a structured SharePoint Excel record of every cabinet's configuration and components, building the data source later used for performance reporting.
- Built a Power BI report for the production-IT department tracking technicians' delivery performance on configured cabinets, also used by management for operational visibility.

AUTOLIV • Data Analyst

Apr 2021 - Oct 2022 • Covasna, RO

- Administered the Leading2Lean (L2L) manufacturing ERP end to end: users, documents, maintenance, KPIs (output, downtime, cycle time), alerts and inventory, keeping the platform reliable and usable across the factory.
- Trained and onboarded production staff to use Leading2Lean in daily operations, driving adoption on the shop floor.
- Maintained ERP data quality so management could rely on accurate production KPIs for planning and decisions.
- Built my first Power BI reports here, beginning the move from ERP administration into data analytics.

PROJECTS

TCP - Trading Central Panel

2026 · thesis

Stack: Power BI · DAX · SQL · Python · Microsoft Azure · Data Modeling · ETL · LLM · Text-to-SQL · Bicep · CI/CD | [GitHub Repo](#) · [Live report](#)

- Built an end-to-end employee-performance analytics platform for a synthetic Romanian boutique trading firm, solo, on Azure free tiers (\$0/month recurring).
- Designed a SQL star schema (10 dimensions, 2 facts) with a nightly MERGE that pre-aggregates daily PnL, so risk KPIs read ~11k rows instead of recomputing a large join on every refresh.
- Built a Power BI semantic model: 52 DAX measures across 5 report pages, row-level security across 4 roles, Import mode with scheduled refresh.
- Built an AI assistant that turns plain-language questions into SQL, validates it with sqlglot, and scopes every answer to the user's role (SESSION_CONTEXT row-level security), using Anthropic Claude with prompt caching.
- Provisioned all infrastructure as code (Bicep + azd, 11 modules) with OIDC-federated CI/CD and no static secrets; reproducible from scratch with one command.

WeatherLens - Weather Analytics

2026

Stack: Python · Data Engineering · ETL · DuckDB · Parquet · Streamlit · Docker · GitHub Actions · AWS (architecture) | [GitHub Repo](#) · [Live app](#)

- Designed and shipped a weather analytics pipeline for 5 Romanian cities, ingesting hourly data from the Open-Meteo API (14k+ hourly rows, partitioned Parquet, \$0/month).
- Designed it as an AWS serverless architecture (S3, Lambda, Glue/PySpark, Athena, Step Functions, EventBridge, CloudWatch) and implemented a runnable local-first equivalent in Python, with each module mapped to its AWS counterpart.
- Pipeline: ingest, validate, transform to Parquet, catalogue with DuckDB, then serve a 4-page Streamlit dashboard (overview, calendar, day insights, and a data explorer with CSV/Excel/JSON export).
- Deployed live on Hugging Face Spaces (Docker) with a daily automated refresh via GitHub Actions, plus a pytest suite.

E-Commerce Data Analysis

2025

Stack: Python · SQL Server · ETL · Power BI · DAX · Data Modeling | [GitHub Repo](#) · [Live report](#)

- Engineered an analytics pipeline on the public Online Retail II dataset (UCI, 1M+ UK e-commerce transactions, 2009-2011).
- ETL in Python (pandas, NumPy, SQLAlchemy/pyodbc): unified multiple source sheets, handled missing values and data types, and loaded 1M+ rows into SQL Server with validation.
- Modelled the data in Power BI with a DAX calendar table and KPIs (total sales, customers, order volume), and built an interactive dashboard with sales-trend, country-ranking, and geographic-distribution views, sliceable by year, month and quarter.

EDUCATION

Transilvania University of Braşov

Oct 2023 - Jun 2026 · Braşov, RO

Faculty of Mathematics and Informatics · BSc, Computer Science

- Coursework across data analysis, statistics, databases and machine learning.
- Hands-on with Python, SQL and Power BI for data processing, modelling and visualisation.
- Bachelor's thesis: TCP, an end-to-end cloud-native analytics platform on Azure with a Power BI model and an AI assistant that answers questions in plain English (see the TCP project above).
- Took part in data science competitions and built personal dashboards to practise applied analytics.

Hochschule Heilbronn

Mar 2025 - Aug 2025 · Heilbronn, DE

Medical Informatics · Erasmus exchange

- Studied databases, applied statistics and health data analysis.
- Completed all coursework and projects in English within an international cohort, strengthening technical and academic communication.
- Applied data analytics in a healthcare context (the German healthcare system).