



ABBASGULU ALLAHVERDILI

DATA ANALYST

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PROFESSIONAL SUMMARY

Data Analyst with hands-on knowledge and project experience across the full data lifecycle — collecting, cleaning, analyzing, and visualizing data. Skilled in SQL, Python, Excel, and Power BI, with experience in data analysis, dashboard development, ETL processes, and KPI reporting. Combining strong analytical thinking, problem-solving, and a continuous-learning mindset to support data-driven business decisions.

CORE SKILLS

Data Analytics: Data Analysis, Data Cleaning & Preprocessing, Exploratory Data Analysis (EDA), Statistical Analysis, Data Visualization & Reporting, Data Storytelling, Reporting Automation

Technical Skills: SQL (Oracle, joins, aggregation, window functions), Python (pandas, NumPy, Matplotlib, Seaborn, BeautifulSoup), Advanced Microsoft Excel, Power BI (DAX, data modeling, dashboards), Web Scraping, Git

TECHNICAL PROJECTS

HR Workforce Analytics — Oracle SQL & Python

- Built a synthetic 10,000 employee organization in Oracle; ran the heavy computation (window functions, hierarchical CONNECT BY queries, percentiles) directly in the database and used Python for interpretation.
- Rewrote a hierarchy query from a correlated subquery to a pre-aggregated CTE, cutting runtime from 85.6s to 0.06s — ~1,400× faster with identical results.
- Found that promotions are driven more by available opportunity than by performance — one department promotes 14.5% of its staff simply because it has 6.6 juniors per senior seat.

Crimes in Boston — EDA & Prediction

- Analyzed ~319,000 Boston crime records (2015–2018) end to end; built a Random Forest model predicting incident severity using time and location alone.
- Found that ~19% of crimes are serious and, although shootings are only 0.32% of incidents, 74% concentrate in 3 districts; the model reached ROC-AUC 0.60.

Credit Card Churn — Interactive Power BI Dashboard

- Built an interactive dashboard analyzing why 10,127 credit card customers churn, using Power Query for data cleaning and DAX measures for the analytics.
- Identified an overall churn rate of 16.07%, with the highest churn among customers inactive for 3 months and low-income (<\$40K) segments — surfacing clear retention opportunities.

Oxu.az News Dataset — Web Scraping & EDA

- Built a Python web-scraping pipeline across 13 categories, collecting metadata and reader reactions for 52,946 news articles published since 2013, and published the dataset on Kaggle.
- EDA revealed that while Sports is the most-written category (5,812 articles), Society is the most-read — exposing a mismatch between editorial focus and audience interest.

Global Superstore — Interactive Excel Dashboard

- Built a fully interactive analytics dashboard using Power Query, Power Pivot, DAX, and PivotCharts to analyze global sales and profitability.
- Identified Central as the sales leader (\$2.8M) and Technology as the main profit driver despite lower sales volume — informing product-mix optimization decisions.

PROFESSIONAL EXPERIENCE

Business Analyst (Intern)

08/2026 – Present

Bir Ecosystem — Baku, Azerbaijan

- Collect and analyze data to identify customer needs, business trends, and key performance indicators (KPIs), closely supporting the preparation of reports and presentations for senior management.
- Participate in requirements gathering for new projects and support the team with process mapping and workflow analysis.

Teaching Assistant (Intern)

02/2023 – 05/2023

Israel Azerbaijan Training Center — Baku, Azerbaijan

- Supported the instructor on a data analytics course; helped students with hands-on Python, SQL, and statistics work in the lab.
- Reviewed students' analysis projects and assignments, explained difficult concepts, and helped improve learning outcomes.

Data Analyst (Intern)

09/2021 – 03/2022

International Training & Project Center — Baku, Azerbaijan

- Cleaned and analyzed large datasets using statistical techniques; identified key trends to generate strategic business insights.
- Built visual reports and interactive dashboards to present project progress and analytical results to stakeholders.

EDUCATION

BSc in Mathematical Engineering

09/2018 – 09/2022

Yildiz Technical University — Istanbul, Türkiye

CERTIFICATIONS & TRAINING

- Data Analyst Professional Certificate — IBM (07/2026)
- Data Analytics — Handex (07/2026)
- Data Science with Python — Data SoCool (05/2024)
- Programming Essentials in Python (PCAP) — Cisco Networking Academy · OpenEDG Python Institute (03/2023)

AWARDS & ACHIEVEMENTS

- Investigation of Brain Tumor Segmentation Using U-Net Architecture — TÜBİTAK (11/2022 – 11/2024)

LANGUAGES

Azerbaijani: Native • Turkish: C1 • English: B2