# HAMIDA JAFAROVA

Junior Data Scientist

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## PROFESSIONAL SUMMARY

Junior Data Scientist with hands-on experience in machine learning, data analytics, and Generative AI. Practised in building ML models with Scikit-Learn and TensorFlow, designing data pipelines in Python, and working with RAG and LLM frameworks. Comfortable with SQL, cloud platforms, and translating data into clear business insights.

## WORK EXPERIENCE

**Data Analyst** | *NovaLingua* Oct 2025 – Present
Baku, Azerbaijan

- Built Python pipelines to clean, transform, and analyse 30K+ user learning records
- Created Tableau dashboards tracking learner retention, engagement, and conversion metrics
- Performed analysis on subscription data, helping identify patterns that improved retention by 20%
- Wrote SQL queries and reporting workflows for content performance across 4 product modules

**Junior Data Scientist** | *Lavanda MMC* Oct 2024 – Oct 2025
Azerbaijan

- Conducted exploratory data analysis across multiple business datasets to surface actionable trends
- Built classification and regression models using Scikit-Learn, iterating on feature engineering and tuning
- Contributed to a RAG-based Q&A tool using LangChain, helping reduce consultant research time
- Prepared data-driven reports and visualisations to support stakeholder decision-making

**Business Data Analyst Intern** | *Khazar Women Resource Center (UNDP)* Jun 2023 – Sep 2024
Baku, Azerbaijan

- Managed digital documentation workflows, ensuring data integrity across UNDP-backed programs
- Built project tracking spreadsheets to monitor timelines, budgets, and deliverables
- Prepared weekly status reports, improving cross-team visibility on project progress
- Analysed project execution phases to identify bottlenecks and improve planning efficiency

## PROJECTS

**CaspianShield** | *AI-Powered Corrosion Detection for Industrial Pipelines* Dec 2025 – Present

- Built a CNN-based pipeline to detect and classify industrial pipeline corrosion from image data
- Implemented severity-based scoring to help prioritise maintenance and reduce safety hazards
- Applied data augmentation techniques to improve model performance across varying conditions

**ECAI** | *AI-Powered Fault Prediction System for Power Transmission Lines* Mar 2026 – Present

- Built an IoT-to-AI pipeline using Arduino sensors to capture real-time voltage, current, and temperature data
- Developed LSTM and XGBoost models in Python to classify normal vs fault conditions and predict failures
- Designed a real-time monitoring dashboard that alerts operators to anomalies before blackouts occur
- Engineered the full data flow from sensor collection through model inference to dashboard visualisation

## EDUCATION

**Bachelor of Science in Computer Science**
ADA University, Baku, Azerbaijan

## TECHNICAL SKILLS

**Programming:** Python, R, SQL
**ML / AI:** TensorFlow, Scikit-Learn, RAG, LangChain, LLM Integration, Prompt Engineering
**Data & Analytics:** Pandas, NumPy, EDA, Statistical Modelling, Data Cleaning
**Visualisation:** Tableau, Power BI, Excel
**Engineering:** Flask, FastAPI, Docker, Git
**Cloud & Big Data:** AWS, Azure, Hadoop, Spark

## LANGUAGES

**Azerbaijani** (Native) | **English** (C1)