

ELENA-LUIZA JALEA

Data Scientist | Data Analyst

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SUMMARY

Data Scientist / Data Analyst with an MSc in Databases and Business Support, specialized in exploratory data analysis, feature engineering, and predictive modeling (Scikit-learn, Python). Hands-on experience analyzing large-scale financial risk data in Databricks and Python during a Data Science internship, combined with strong reporting skills in Power BI and SQL. Proven ability to deploy end-to-end machine learning applications and translate complex datasets into actionable, business-relevant insights.

WORK EXPERIENCE

Risk Data Scientist Intern – *Worldline SA, Bucharest, Romania*

Dec 2024 – Apr 2025

- Conducted advanced financial data analysis in Databricks, focusing on data cleaning, transformation, and interpretation of large datasets.
- Built a Power BI risk dashboard from scratch and maintained a second dashboard through scheduled data refreshes, ensuring consistently up-to-date reporting.
- Built Python automation scripts to transform complex tabular datasets into structured, analysis-ready formats, streamlining reporting workflows for technical and business teams.
- Partnered with risk, business, and technical teams to align data reporting initiatives with business needs, supporting faster and more informed decision-making.
- Contributed to the design and development of an internal web-based tool for data accessibility, enabling stakeholders to explore analytical insights more efficiently.

EDUCATION

MSc in Databases and Business Support – *Bucharest University of Economic Studies*

Oct 2023 – Jul 2025

- Final grade: 10/10
- Thesis: “Developing an Information System for Analyzing the 2024 Stack Overflow Survey Using Machine Learning Techniques” – deployed as a Streamlit web application ([live demo available](#)).
- Relevant coursework: Databases, Big Data Analysis, Machine Learning Techniques, Data Mining

BSc in Economic Cybernetics – *Bucharest University of Economic Studies*

Oct 2020 – Jul 2023

- Final grade: 10/10
- Thesis: “Analysis, Diagnosis, Modeling and Optimization of Netflix Company Data and Activities. Impact of the Company on the European Market”.
- Relevant areas: Statistics, Econometrics, Programming, Data Modelling.

PROJECTS

Machine Learning Web Application – Stack Overflow Survey

Developed an end-to-end machine learning web application (Python, Streamlit) analyzing data from the Stack Overflow Developer Survey, featuring interactive dashboards, a salary prediction model, and a personalized technology recommendation system based on user experience, location, education, and age.

GitHub: <https://github.com/LuizaaElena/Stack-Overflow-Survey-2024-Analysis-and-ML>

Live Demo: <https://stack-overflow-survey-2024-analysis-and-ml.streamlit.app/>

Loan Approval Prediction Web Application

Built a machine learning web application to predict loan approvals from personal and financial data, including exploratory analysis, preprocessing pipelines, classification modeling, and interactive visualizations.

GitHub: <https://github.com/LuizaaElena/Loan-Approval-Prediction-Web-Application>

Live Demo: <https://luizaaelena-loan-approval-prediction-web-application-app-lzpipe.streamlit.app/>

AI Poetry Generator Web Application

Built a full-stack web application (React, Node.js, Express) integrating the Google Gemini API to generate personalized poems based on user-selected topic, style, and language, demonstrating full-stack development and third-party API integration skills.

GitHub: <https://github.com/LuizaaElena/Poem-Generator>

SKILLS

Machine Learning & Data Science: Exploratory Data Analysis (EDA), Feature Engineering, Predictive Modeling, Scikit-learn, Pandas, NumPy

Data Analysis & Statistics: Statistical Analysis, Data Modeling, Data Preprocessing, ETL Processes

Programming: Python, SQL, R, SAS

Tools & Platforms: Databricks, Jupyter Notebook, Git, GitHub, VS Code

Data Visualization: Power BI, Matplotlib, Seaborn, Streamlit

Databases: Oracle, PostgreSQL, MySQL, MongoDB

Soft Skills: Analytical Thinking, Problem Solving, Attention to Detail, Team Collaboration, Communication, Proactivity

LANGUAGE SKILLS

Romanian – Native

English – B2 (Professional Working Proficiency)

CERTIFICATIONS

Introduction to AI – Google (Coursera)

Completed: Jan 2026

Credential: coursera.org/verify/EWFMO4NPCCDG

Oracle Academy – Database Programming with SQL

Completed: Feb 2024

Credential: <https://drive.google.com/file/d/1VEBgiZklRBJOONpId7rXLq8-8gWDHfIS/view?usp=sharing>

Oracle Academy – Database Design

Completed: Feb 2024

Credential: https://drive.google.com/file/d/19xfqw8AmV_pa93W3FLXOPYS44lxgaPYb/view?usp=sharing