

# Sinem Demir - Data Analyst

Geneva, Switzerland

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Analytical and detail-oriented Data Analyst with hands-on experience in Python-based quantitative modeling, data engineering, and statistical analysis in scientific and industrial contexts. Skilled in object-oriented programming, database development, and large-scale data processing using tools like SPARK and SQL. Proven ability to design, optimize, and validate data-driven models, supporting critical decision-making processes. Experienced in agile environments, with a collaborative mindset and strong communication skills. Looking to leverage my skills in model implementation, structured trading support, and computational optimization within a quantitative developer role.

## Work Experience

### Data Analyst at TE-CRG-ML Section (TECH)

The European Organization for Nuclear Research (CERN), Geneva, Switzerland Sept 2024 - Nov 2025

- Designed and implemented **robust data pipelines and metrics** using **Python** (SWAN, SPARK) to automate signal processing and integrate cryogenic test data with GitHub dashboards (*Grafana, Jupyter*). See: **Sample script**.
- Conducted **browser-based URL encoding** research to improve multi-platform data retrieval, enhancing data accessibility.
- Contributed to an **AI project** on GPT-like models; explored RAG, LLMs, Streamlit, Kubernetes, and OpenSearch; documented findings in Confluence.
- Created **dynamic PL/SQL tables** and developed 50+ automated reports using Pentaho; tested CERN Upload Utility System.
- Supported teams with SQL scripting (DBeaver, MS Access) and maintained large-scale CRG KPI datasets; presented findings at cross-team meetings.

### Junior Data Analyst

Earthworm Foundation, Nyon, Switzerland Sept 2023-2024

Led the development of innovative supply chain analysis solutions by standardizing data and optimizing sustainability processes (*Jupyter Notebook*), resulting in a 20% reduction in resource waste.

Utilized **Python** to write scripts that automated processes (*Excel*), saving the team approximately 15 hours per week and enhancing efficiency through **Web Scraping**.

Collaborated in **agile international teams** with interdisciplinary teams to implement data-driven strategies. This included:

- Leading meetings with **international teams** from Indonesia and Malaysia to align project goals and strategies.
- Presenting the projects to an audience of 120 people, effectively communicating technical concepts and outcomes.
- Supporting the SCA NDV Data Team in **creating reports** (*VBA Macro, Tableau*), resolving issues, and continuously improving deliverables and services for over 50 members.

### Data Scientist Intern

SRM Technologies, Ankara, Turkey Summer 2023

Analyzed large datasets for luxurious hotel pricing using advanced statistical techniques (regression analysis) and machine learning algorithms (decision trees, random forests), leading to the identification of 10+ actionable insights for predictive modeling. Utilized Python and pandas for data manipulation and analysis.

Developed forecasting dashboards (*AWS Tools*) to visualize key performance indicators, resulting in a 15% reduction in errors and improving reporting efficiency by 25%.

### Social Media Marketing Specialist

Hub21, London, United Kingdom Apr 2022 - Jun 2023

Coordinated marketing activities across 5 social media platforms and digital channels, utilizing analytics to optimize campaign reach by 30% and engagement by 25% while collaborating on content creation.

## Education & Qualifications

### M.Sc. in Applied Economics, specializing in Data Science

Université de Neuchâtel, Neuchâtel, Switzerland 2022-24

M.Sc. Thesis: *Advanced (ML) Methods for Deforestation Analysis and Sustainable Commodity*

### Bachelor of Economics with Honors (in English)

Bilkent University, Ankara, Türkiye 2017-22

## Technical Strengths

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- **Programming Languages:** Python, R, SQL, PL/SQL, MySQL, PostgreSQL, MATLAB, LaTeX, SPARK, Looker (familiar)
- **Development Tools:** Jupyter Lab, DBeaver, SWAN, GitHub, Google Collab, Visual Studio, PyCharm
- **Analytics Strengths:** A/B Testing Design & Analysis, Experimentation, Statistical Modeling, Product Metrics, Funnel Analysis, Dashboarding, KPI Reporting
- **Data Analytics:** Power BI, Stata, Notion, Tableau, AWS
- **Business Tools:** Microsoft Office Suite (Word, PowerPoint, **Excel with VBA**), Adobe Acrobat, Asana, Collab, **Drupal**, **Confluence**
- **Operating Systems:** Windows, macOS

## Soft Skills

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- **Detail-oriented** with strong **problem-solving** skills.
- Proficient in prioritization and time management.
- **Innovative thinker** with unique solutions.
- Effective in public speaking and presentations.
- Experienced in diverse, **multifunctional teams**.
- **Protagonist (ENFJ-T)**, focused on leadership and support.

## Certificates and Awards

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2024	<b>McKinsey - Forward Program Certificate:</b> Completed a prestigious program focused on developing strategic problem-solving and leadership skills.
2024	<b>We Bloom Wave Fellowship Certificate:</b> Participated in a fellowship aimed at empowering women in technology and fostering professional growth.
2024	<b>Cisco - Data Analytics Essentials Certificate</b>
2022	Bilkent University - <b>High Honor</b> Certificate with the grade of <b>3.86/4</b>
2021	<b>2nd Place</b> in <b>"Understanding and Analyzing the Financial Statements"</b> <b>Project:</b> Achieved recognition for teamwork and analysis skills in a financial accounting project.
2020 - 2021	Bilkent University - <b>Honor Certificate</b>
2019	<b>UNFPA Orange Peak Certificate:</b> Focused on <b>women empowerment and leadership development</b> .

## Other Skills

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- **Languages:** Turkish - Native, **English - C1**, **French - B2**, Spanish - A2
- **Interests:** **Trombone player with a competition award**, enthusiastic about art (writing poems and stories)
- **Sports:** Hiking and indoor climbing, professional swimmer