

Sahin Cetin

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Professional Summary

Data Analyst pivoting to Data Engineering with a strong foundation in industrial engineering and practical experience developing data infrastructure. Evolved from analyzing data insights to designing and automating data pipelines using Python, PySpark, and SQL to process datasets across finance, retail, and IoT environments. Skilled at translating business requirements into technical solutions while maintaining focus on data quality and accessibility. Enthusiastic about building data solutions and contributing to team success through collaboration and continuous learning.

Technical Skills

- Programming & Query Languages:** Proficient in SQL for data extraction, transformation, and integration; experienced with Python libraries including Pandas, NumPy, and scikit-learn for data manipulation and analysis.
- Data Pipeline Development:** Built automated ETL pipelines using Python and PySpark, implementing data quality checks for reliable data processing.
- Cloud & Infrastructure:** Foundational knowledge of cloud platforms with Microsoft Azure certification; understanding of cloud-based data solutions and infrastructure principles.
- Process Optimization & Automation:** Proven ability to identify automation opportunities and deliver solutions that significantly reduce processing time and improve operational efficiency.,

Professional Experiences

Internal Audit Intern, INGKA (IKEA Retail) | October 2025 – Present | Malmö, Sweden

- Main Responsibilities**

- Analyzed financial data flows across finance and retail systems to assess revenue recognition accuracy and identify data quality issues in different markets.
- Supported cyber incident response audit by reviewing policy documentation, analyzing incident reports, and assessing escalation and recovery procedures.

Freelance Data Analyst | July 2024 – August 2025 | Remote

- Utilized Python and SQL to analyze datasets, identifying sales trends and stocking inefficiencies for an apparel store. These analyses provided actionable insights for optimizing product assortment and managing inventory.
- Engineered and automated data pipelines and ETL processes in Python, leveraging PySpark for processing, Pandas for data manipulation, and implementing data quality checks.
- Developed a comprehensive visitor behavior analysis dashboard for a healthcare equipment website, using Power BI to track key metrics such as user flow, bounce rates, and session duration.

IT Auditor, Yapı Kredi Bank | February 2020 – March 2023 | Istanbul, Turkey

One of the leading publicly traded private banks in the country, with over 15,000 employees. It is widely recognized for its robust digital infrastructure and banking platforms. | [Yakredi Bank](https://www.yakredi.com.tr)

- Main Responsibilities**

- Conducted evaluations of IT developments and projects, collaborating closely with IT teams to implement suitable controls by identifying and addressing underlying issues.
- Communicated the potential vulnerabilities and control deficiencies detected in the audits to upper management, improving my ability to effectively communicate complex technical matters.
- Generated SQL reports and queries within the database to fulfill the requisites of the Internal Control teams during audit processes.

- **Key Achievements**

- Identified significant anomalies in transaction data using statistical analysis, leading to the discovery of potential fraudulent activities and providing concrete intelligence for risk mitigation.
- Supported the development and improvement of internal reporting tools and infrastructure to ensure data quality and accessibility for reporting and analysis.
- Built predictive models to forecast potential access breaches based on operational data, allowing internal control units to proactively implement preventative measures and improving control effectiveness.

Automation Engineer and Data Analyst, Guncel Yazilim | October 2018 – January 2020 | Bursa, Turkey

A technology company providing ERP and automation systems solutions for the textile industry, operating both nationwide and internationally.

- **Main Responsibilities**

- Developed and maintained comprehensive BI reports using SQL to analyze IoT device data.
- Offered customer support by using Python and SQL in instances of installation, breakdowns concerning machine data collection and service protocols.
- Applied data cleaning and processing techniques on large datasets, improving data quality and accuracy for subsequent data mining and machine learning tasks.

- **Key Achievements**

- Supported the development and improvement of internal BI tools and infrastructure to ensure data quality and accessibility for reporting and analysis.
- Identified KPIs and established frameworks for measuring business performance across different areas, aligning with the need for data-driven decision-making.
- Examined and automated the installation process of IoT devices, reducing the software/installation time by 80%.

Education and Certifications

- **Microsoft Certified: Azure Fundamentals | August 2025**

[Credential Link](#)

- **Data Science Certification Programme | Koc University | September 2021 – June 2022**

Acquired a strong foundation in AI, ML, and DL through a comprehensive certification programme. Gained practical experience in data analysis and modeling by completing mandatory lab sessions and data science projects.

- **Bachelor of Science in Industrial Engineering | Uludag University | September 2015 – January 2020**

Developed a strong foundation in a programme that combined systems analysis, operational research and mathematical modeling to solve complex business problems and optimize operational efficiency. Gained theoretical knowledge and practical skills in programming and statistical analysis. Applied this knowledge to a machine learning-focused graduation project, gaining hands-on experience in building probabilistic models using real-world data.