

Weronika Król

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Education

Gdansk University of Technology

BSc in Data Engineering

Gdansk, Poland
09/2018 – 02/2022

- Honours Graduate | Concentration: *Creating Big Data Solutions (studies in English)* | GPA: 4.65/5
- Multidisciplinary course at Computer Science & Management and Economy Faculties.
- Thesis in collaboration with NASDAQ: *Prediction of stock exchange prices of selected companies using the statistical model (ARIMA) and the Long short-term memory (LSTM) neural network model based on the data from NASDAQ. Comparison of the results obtained by both models.*

Experience

CERN - European Organization of Nuclear Research

Data and Reporting Specialist

Meyrin, Switzerland
10/2023 – present

- Leading a project for the largest HR statistical report (70+ pages) at CERN, managing 50+ stakeholders, translating requirements into technical specifications, presenting requirements to IT developers, executing tasks (R Shiny), and delivering final components to stakeholders as a sole expert.
- Conducting data analysis (SQL) and visualizations (70+ conducted) of CERN's daily operational and financial data, transforming complex facts into actionable insights that enhanced senior management decision-making accuracy.
- Providing ongoing support to the Data & Reporting team, managing daily data maintenance and overseeing complex ETL processes.
- Led end-to-end development of an internal Power BI data model for CERN's learning management system (17 000+ users) encompassing data source identification, dataflows creation, modeling, testing, and measures implementation (Python).
- Organized and facilitated Power BI workshop in collaboration with Microsoft specialists from USA HQ for 2 departments.

Data Visualization Researcher

10/2022 – 09/2023

- Led CERN's Power BI centralization project, analyzing use cases across 3 departments and coordinating stakeholders meetings. As a result, delivered a comprehensive analytical report comparing two tools (Pentaho & Power BI) that was presented to the CERN's Board and led to the final decision.
- Developed end-to-end framework for Power BI deployment across the organization.
- Managed Power BI service administration: configured gateways, created sample reports, workspaces, data connections, dataflows.
- Facilitated 5 knowledge-sharing sessions on Power BI best practices. Presented insights and use cases on 50+ team and group level meetings.

T-Mobile Deutsche Telekom

Data Engineer Intern

Warsaw, Poland
07/2021 – 09/2022

- Deployed 2 interactive, self-service dashboards (Tableau) for 300+ internal stakeholders, reducing costs and time of data processing by 80%. Managed the end-to-end process by gathering business requirements, identifying data sources, designing dashboards, building data models.
- Performed 300+ in-depth SQL/HQL analyses on customer and location-based data enabling marketing divisions to refine strategic goals and optimize targeted campaigns by understanding customer interactions, geographic trends and campaigns response rate.
- Streamlined internal analysis requests by developing standardized SQL/HQL query templates based on historical analysis turnaround by 40% and improved response times across marketing departments.
- Provided ongoing support to the Data Enablement team, managing daily maintenance and monitoring data platforms (Hadoop, HIVE).

Scientific Publications

Kobiela, D., Krefta, D., **Król, W.**, & Weichbroth, P. (2022). *ARIMA vs LSTM on NASDAQ stock exchange data*. *Procedia Computer Science*, 207, 3836-3845. (Time series forecasting with Deep Learning (LSTM) and statistical (ARIMA) approaches (Python))

Achievements

Imperial Female Future Leader Award

Panelist at "Perspektywy Women in Tech 2024 & 2025" conferences with 14,000+ attendees each year

Mentee in "Big Data – Big Challenges 2024" program, leadership skills

Power BI Beyond Basics course, JBI Company, DAX, M language, advanced visualizations and platform administration

Golden Badge Award for most talented students at the faculty of Computer Science, top 2% of the year

Rector Scholarship for best students, top 10% of the year

Intel Scholarship Program, "New Technologies for Women", top 25 out of 5000 candidates

London, 2025
Warsaw, 2024-2025
Warsaw, 2024
Dublin, 2023
Gdansk, 2022
Gdansk, 2021-2022
Gdansk, 2020-2021

Voluntary Activities

President of "CERN mentoring program 2025,2026" & Co-organizer of "CERN mentoring program 2024, 2025"

Volunteer at "IT girls" Foundation

Tourist guide at CERN & Volunteer at "CERN Alumni Third Collisions 2024" conference

Mentor at Intel Scholarship Program, "New Technologies for Women for Ukraine"

Geneva, 2024-2026
Warsaw, 2023-2024
Geneva, 2022-2024
Gdansk, 2022-2023

Skills & Interests

Technical: Python, R, SQL, dbt, Power BI, Tableau, Pentaho, Git, Jira, Confluence, Hadoop, Hive, Airflow, Grafana, MySQL, PostgreSQL

Skills: Communication, Public Speaking, Organization & Time Management, Teamwork

Languages: Polish: native, English: working proficiency

Interests & Hobbies: violin player, salsa & bachata dancer, hiking, paragliding, camping, skiing