

NOAH DARWICH

Data Scientist

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[noah-darwich](#)

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Passionate data scientist bridging technology and social impact through data-driven research. with a strong background in creating and curating event datasets related to protest movements. I leverage Python and machine learning to uncover meaningful patterns that contribute to societal understanding. My work spans from protest event analysis to leveraging cutting-edge data science tools to digitize and streamline academic research in these fields.



EMPLOYMENT HISTORY

12.2024 - PRESENT | RESEARCH DATA SCIENTIST

ROCKWOOL FOUNDATION, BERLIN (GERMANY)

- Conducting public policy research analyzing the impact of infrastructure changes (e.g., hospital closures) on German election outcomes
- Performing comprehensive data preprocessing and cleaning of public datasets
- Collaborating with interdisciplinary team to formulate research methodologies and approaches

04.2025 - PRESENT | RESEARCH DATA SCIENTIST

FREELANCE

- Currently collaborating on a pilot conference at Oxford University aimed at examining the mechanisms of exploitation, coercion, and slavery within market systems while addressing critical data gaps in this field. Working to compile and analyze existing research findings to provide conference participants with a comprehensive assessment of the current state of data in this domain.



04.2023 - 10.2024 | PROJECT MANAGER

GEORGETOWN UNIVERSITY, WASHINGTON, D.C. (USA)

Scholars: -Killian Clarke, Assistant Professor at Georgetown University

-Chantal Berman, Assistant Professor at Georgetown University

-Rima Majed, Assistant Professor at AUB

- Developed and implemented a comprehensive data collection strategy to capture quantitative event datasets on the second Arab Spring wave (2019) in Sudan, Algeria, and Lebanon
- Oversee all aspects of the research projects, including planning, execution, and monitoring
- Designed and conducted training sessions for the Research Assistants
- Managed and provided guidance to three teams, each with 2-5 research assistants
- Implemented quality control measures, ensuring data accuracy and integrity by establishing rigorous quality control measures and performing regular data audits
- Developed automated research tools (i.e. Python Scripts, AI models) to streamline protest event data collection by identifying events, categorizing, and storing key variables from Arabic news articles for large-scale research

01.2021 - 07.2023 | SENIOR RESEARCH ASSISTANT

- Developed algorithmic data collection methods in Python, to automate key variables extraction and data entry
- Collected and analyzed protest event data from the Iraqi Arab Spring protest wave (2011) and the 2019 Tishreen uprising, drawing on local Iraqi news sources and social media sources
- Collected Arabic-language qualitative data on Egypt's football ultras; analyzed data on home districts of ultras killed during and after the 2011 revolution

04.2023 - 07.2024 | DATA SCIENCE LECTURER

LE WAGON, COLOGNE (GERMANY)

- As a data science lecturer, I lead students during the bootcamp through the intricacies of data analysis, machine learning, and data visualization, ensuring they are well-prepared to tackle real-world data science challenges upon completing their training

07.2022 - 04.2023 | SENIOR TEACHING ASSISTANT

- Helping students in the full-time Data Science bootcamp complete their daily coding challenges, from debugging their code to reinforcing fundamental concepts from their coursework
- Supporting the students' needs during their graduation projects
- Speaking at workshops organized by the company, which gives an introduction to Data Science topics (e.g. Advanced Python and SQL, Data Analysis & Visualization, Machine Learning, Deep Learning...)

04.2018 - 10.2021 | RESEARCH ASSISTANT

PRINCETON UNIVERSITY, NEW JERSEY (USA)

Scholar: -Killian Clarke, Assistant Professor at Georgetown University

- Constructed a dataset of protest events in Egypt during the final eighteen months of the transition (2012-2013) using the Egyptian Arabic-language newspaper al-Masry al-Youm
- Analyzed data for descriptive trends and patterns and conducted diagnostic assessments for data accuracy and quality

11.2019 - 05.2020 | RESEARCH ASSISTANT

PRINCETON UNIVERSITY, NEW JERSEY (USA)

Scholar: Gözde Güran, Assistant Professor at the London School of Economics

- Contributed to the construction of a dataset of quantitative data which was collected through ethnographic fieldwork for the project "How money moves in wartime Syria"
(Winner of the 2021 ASA Best Dissertation Award and the 2021 MESA Malcolm Kerr Best Dissertation Award)

01.2019 - 05.2021 | RESEARCH ASSISTANT

AMERICAN UNIVERSITY OF BEIRUT (LEBANON)

Scholar: Rima Majed, Assistant Professor at AUB

- Collected and analyzed protest event data (1889-2019) for the project "Social movements in post-war Lebanon"
(Winner of the 2021 ASA Best Dissertation Award and the 2021 MESA Malcolm Kerr Best Dissertation Award)

03.2016 - 11.2018 | MARKETING AND SALES ADMINISTRATOR

SHANGHAI MALL, TARTUS (SYRIA)

- Developed marketing plans
- Market observation, price development

EDUCATION

04.2022 - 07.2022 | DATA SCIENCE BOOTCAMP

LE WAGON - COLOGNE

- Advanced Python & SQL for Data Science
- Data Analysis & Visualization
- Un/supervised Machine Learning
- Deep Learning & Neural Networks

09.2015 - 06.2018 | BACHELOR OF BUSINESS ADMINISTRATION

TISHREEN UNIVERSITY, LATAKIA (SYRIA)

- BACHELOR OF BUSINESS ADMINISTRATION

PROJECTS

PRO-TEST

GRADUATION PROJECT AT LE WAGON

A machine learning webapp that predicts violence at demonstrations

- Applied Data cleaning and feature engineering on >13k event datasets, with >100 categorical columns
- Data analysing and correlation testing between features and targets
- Built and finetuned a RandomForest model, achieving 80% accuracy
- Deployed the model on streamlit, after developing basic back- and frontend

LANGUAGES

- Arabic 
- English 
- German 
- Turkish 

COURSES

12.2021 - 02.2022 | DATA ANALYSIS WITH PYTHON FREECODECAMP.ORG

- Reading data from multiple sources
- Process and visualize data
- Using NumPy, Pandas, Matplotlib and Seaborn libraries

SKILLS

- Python
- Matplotlib - NumPy - Pandas
- Scikit learn - TensorFlow
- Data visualisation
- Machine Learning
- Deep Learning

02.2021 - 04.2021 | ONLINE COURSE PYTHON MICHIGAN UNIVERSITY, COURSERA

- Reading data from multiple sources
- Python Data Structures
- Using Python to access web data

INTERESTS

- Politics
- Human rights
- Making music
- Chess
- Painting and drawing

VOLUNTEERING

06.2018 - 08.2019 | VOLUNTEER INTERPRETER SAFE PLACE ISTANBUL NGO, ISTANBUL (TURKEY)

- An NGO that provides services for LGBTQ refugees