

Jihed Ncib, PhD

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U.S. Permanent Resident (Green Card) – No sponsorship required

Core Skills Snapshot: *Python, R, SQL, LLMs, Data Analysis and Visualization, Regression, Time-Series, Predictive Modeling, A/B Testing, NLP.*

Quantitative/ML Researcher and Data Scientist with a PhD in Computational Political Economy and an MSc in Computer Science. Expertise in designing end-to-end machine learning and data science pipelines, predictive modeling, data analytics, and advanced NLP to extract insights from large-scale, unstructured datasets. Proven track record of managing analytics workflows on datasets exceeding 10M+ observations to support data-driven decision making.

Education

- **Ph.D. in Computational and Quantitative Political Economy** - University College Dublin (2021 – 2025)
 - Focus: Machine Learning Approaches to Understanding Legislative Economic Discourse.
 - Honors: Fully-funded Ad Astra PhD Scholarship (\$190,000).
- **M.Sc. in Computer Science** - Eastern Illinois University (2020 – 2021)
- **M.A. in Political Science (Quantitative Track)** - Eastern Illinois University (2018 – 2020)
- **B.A. in Law and Economics** - Université de Rennes (France) (2015 – 2018)

Professional & Quantitative Research Experience

- **Machine Learning & Data Research Scientist** - Insight Center for Data Analytics (03/2025 – 05/2026)
 - Engineered and deployed end-to-end machine learning pipelines to ingest, clean, and analyze large-scale economic text datasets containing 6M+ rows of unstructured data.
 - Benchmarked 12 distinct machine learning and NLP models, optimizing model architecture to achieve high-accuracy classifications (F1-score > 0.90).
 - Built statistical and regression models to quantify the economic correlation between linguistic precision/vagueness in text and macro-economic decision-making patterns.
 - *Tools used: Python, R, Tidyverse, PyTorch, scikit-learn, HuggingFace, Pandas, NumPy.*
- **Quantitative Visiting Researcher (Internship)** - MZES Mannheim Centre for European Research (04/2023 – 05/2023)
 - Cleaned and processed large-scale datasets using Tidyverse; created predictive models and clear data visualizations for several research projects.
- **Quantitative Visiting Researcher (Internship)** - GESIS - Leibniz Institute for the Social Science (03/2023 – 04/2023)
 - Used R and Python to parse, tokenize, and extract features from unstructured datasets.

Technical Skills

- **Languages:** Python, R, SQL.
- **Tools & Frameworks:** Pandas, NumPy, Tidyverse, PyTorch, scikit-learn, Git, HuggingFace.
- **Machine Learning & Data Science:** Data Analytics, Regression Analysis, Predictive Modeling, Time-Series, A/B Testing, LLMs / Transformer Models, Hypothesis Testing, Data Mining, NLP.