

ASWIN JOSE ROY

DATA ANALYSIS & QUANTITATIVE RESEARCH

CONTACT

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Berlin, Germany

SKILLS

Technical Tools - Python, SQL, AWS

Interest Areas: Democracy Studies, Migration
Policymaking, Quantitative Research, Information
Retrieval, Data Visualization and Analysis

Languages - English (Fluent), German (A2),
Malayalam (Native), Hindi (Fluent)

Other Skills - MS Office, Power BI, JIRA, Git

EDUCATION

Master's in International Affairs

Hertie School of Governance,
Berlin (2021-23)

Concentration - International Security

Key Courses - Statistics (Causal Inference), Data
Science and Decision Making, Global Governance of
Migration, Global Politics, Authoritarian Politics

Master's Thesis - Examining Refugee Recognition
Practices in India through the Lens of Discrimination
and Delegation Puzzles: A case study of India's state
responses to refugees

Extra curricular - Elected Student Representative of the
Master's cohort (2021-22)

Research Papers -

- Harmonizing Kerala's Cultural Mosaic: Fostering
Integration and Inclusion for Migrant Laborers
(Policy Brief)
- Influence of Information Warfare on Aggressor
State's Political Position: An analysis of Russian
Information Warfare in Ukraine

Bachelor of Technology in Computer Science Engineering

Cochin University of Science and Technology, Cochin
(2010-14)

Concentration - Information Retrieval

WORK EXPERIENCE

Intern - Data Engineering and Analytics

Nov 2023 - Jan 2024

CO2iq Solutions GmbH, Berlin

- Spearheading the development of a product for streamlined filing of Carbon Border Adjustment Mechanism reports to the EU's regulatory bodies
- Conducting vital research on Emissions Intensities at national and regional levels, building crucial datasets for companies navigating sustainable transition
- Contributing to an early-stage startup's mission in energy transition, driving environmental responsibility and supporting companies on their sustainable journey

Academic Support

Research Associate

Jul 2023 - Oct 2023

Centre of Data Science at the Hertie School, Berlin

Project: Catalyse International Research Consortium

- Contributed to climate change research in building an early warning system for extreme weather and related medical illnesses. I utilize Python and SQL for data analysis, web scraping, and data visualization to assist the research
- Developed and managed a comprehensive database using innovative and automated data-gathering techniques and assisted in building ML models

Research Assistant

Oct 2022 - Jun 2023

Centre of Data Science at the Hertie School, Berlin

Project: SCRIPTS, Challenges to the liberal model of financial order

- Contributed to the research project investigating challenges to the liberal model of financial order, employing data collection and analysis skills
- Utilized Python Pandas and Plotly to extract insights and create visualizations to assist research from merged datasets, including financial structures, democracy scores, and various economic models

Teaching Assistant

Feb 2023 - Jul 2023

Hertie School of Governance, Berlin

- Served as a teaching assistant for the course *Data Structure and Algorithms* for Master's in Data Science students, conducting research, preparing presentations, grading assignments, and providing regular feedback to enhance conceptual understanding of the students

Experience in Data Engineering

Senior Data Engineer

Dec 2020 - Aug 2021

Bungee Technologies and Analytics, New Delhi

- Led internal data engineering projects for a 3 Million USD e-commerce analytics product, driving MSMEs' competitiveness and reducing losses
- Collaborated with the CTO to optimize data flow across teams, conducted impact assessments, and maintained quality control
- Oversaw new-hire onboarding, managed 10 junior data engineers, and implemented cross-training for accelerated learning and quality assurance

Software Engineer / Big Data Engineer

Aug 2014 - Nov 2019

Multiple firms, Mumbai / Bengaluru

- Developed backend applications and data management systems at QBurst Technologies, Supply AI, and Quiklo Technologies, acquiring expertise in Software Engineering and Big Data tools
- Cultivated expertise in data engineering through hands-on training and guidance from industry experts during my tenure at these firms
- Assisted data engineering projects for a Financial Risk Management product used by top Indian banks with a combined market cap of 200 Billion USD