

Contact

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Location: Cork, Ireland

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Other:

- [Portfolio website](#)
- [GitHub](#)
- [LinkedIn](#)

Skills

Programming

- Python
- SQL
- R

Data Science

Libraries

- PyTorch
- scikit-learn
- XGBoost
- LightGBM
- Pandas
- NumPy
- Prophet
- BeautifulSoup

Data Engineering & Cloud Services

- Docker
- Apache Kafka
- Azure
- dbt
- Linux

Data Visualisation

- Power BI
- Tableau
- matplotlib
- Plotly
- Seaborn

Other

- Git
- Confluence
- Jira
- Jupyter
- RStudio
- Bash
- JavaScript

Oliver Norton

Experience

Feb 2023 - Jan 2024, Junior Data Scientist, *Meltwater*

- Developed time series models with Prophet to forecast demand for food ingredients in a €150,000 client project
- Automated manual tasks and improved workflows, saving over 450 billable hours for colleagues
- Managed Linux VMs, leveraged social media data platforms, and developed Python scripts for ETL processes
- Collaborated with cross-functional teams to deliver insights and effectively communicated technical concepts to non-technical colleagues

Projects

SafeBank: Fraud detection model and ML pipeline deployment

Dec 2024 | **Data Science** | View project on: [Website](#), [GitHub](#)

- Developed a fraud detection model using Python package LightGBM, achieving ROC AUC of 0.932, and implemented a pipeline using Kafka
- Conducted data wrangling, Exploratory Data Analysis (EDA), feature engineering, addressing class imbalance and data quality issues
- Applied gradient boosting and encoding to optimise model performance

Aether Energy Analytics data process automation

Jul 2024 | **Data Engineering** | View project on: [Website](#)

- Designed and implemented robust data pipelines with ETL -like process, using dbt, Docker, Python, Bash, Git (GitHub) and Linux
- Transformed raw data and created data models using SQL queries
- Implemented rigorous testing and quality checks to ensure data integrity

Carpooling A/S Cloud architecture design

Jun 2024 | **Cloud Computing** | View project on: [Website](#)

- In 72 hours, designed a data software architecture for client interested in migrating from an on-premise solution to the Cloud

Quantifying polarisation using networks and text data

Sep 2023 - Jan 2024 | **Network Science** | View on: [Website](#)

- Developed a novel multi-dimensional approach to quantify political polarisation, adhering to data governance standards
- Created a machine learning (ML) model (cross-validated Lasso regression)
- Used cloud virtual machines (VM) for model execution and analysis

Analysing climate discourse with NLP & network analysis

May - Jun 2022 | **Data Science** | Visualisation on: [Website](#)

- Analysed Twitter API text data, focusing on sentiment and discourse
- Developed ML classification models and used LDA topic modelling to identify key themes and trends in the conversation
- Visualised a retweet network employing community detection algorithms

Education

2021-2024, MSc in Social Data Science, *University of Copenhagen*

- Grade Average: 9.5/12 with grade 12/12 in master's thesis

2017-2021, BA in Business, Economic & Social Studies, *Trinity College Dublin*

- Grade Average: 70% (First Class Honours)