# Contact

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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)