

Marco Edward Gorelli

Education

MRes, Mathematics of Planet Earth; 2016-2017; Imperial College & University of Reading

MSc, Mathematics and Foundations of Computer Science; 2015-2016; University of Oxford

BSc, Mathematics with Professional Practice; 2011-2015; Brunel University London

Open source

- **nbQA** (<https://github.com/nbQA-dev/nbQA>)
 - I'm the author of this code quality tool for Jupyter Notebooks
 - 100% test and documentation coverage
 - Have set up continuous integration via GitHub Actions
- **pandas** (<https://github.com/pandas-dev/pandas>)
 - Member of *pandas-triage* team since Jan 2020, have reviewed 98 pull requests and had 45 pull requests merged
 - Hosted pandas sprint at **PyData Festival Amsterdam**, where I mentored 15 attendees
 - Added new method `DataFrame.to_markdown` (featured in the **v1.0.0 release notes**) and fixed issue **#27453** (featured in the **notable v1.1.0 bug fixes**)

Experience

Data Scientist at Samsung R&D Institute UK; Nov18 - now

- Mentored fellow employees by co-organising workshops and reading groups on SHAP values, markov chains, bayesian methods, and pre-commit
- Improved accuracy/interpretability of hierarchical forecasting models by 5 percentage points using simpler models and more careful feature engineering
- Deployed end-to-end web-scraping dashboard and anomaly detection module for sensor data to web apps - included work on AWS, Google Cloud, CircleCI, MongoDB, PySpark
- Passed internal *Advanced Software Engineering Test (C++)* (£500 reward)

Data Scientist at Sedex; Jun18 - Nov18

Data Scientist at Sensium; Jan18 - May18

Maths tutor at Oxford Exclusif Tutorial Agency; Oct18 - Jan18

Risk Analyst Intern at General Electric Capital International; Jun13 - Jun14

Achievements

- Kaggle:
 - Competitions expert:
 - * top 8% in *Tweet Sentiment Extraction* : PyTorch RoBERTa NLP model
 - * top 8% in *M5 Forecasting - Uncertainty* : Keras quantile regression deep learning model
 - Discussions expert
- Coursera: "Deep Learning Specialization", "Applied Data Science with Python Specialization"
- During BSc: Foster Award for "exceptional mathematical ability", Level2 Award for highest grades