

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 (pandas)

- **Volunteer maintainer** since Jan 2020, have reviewed 98 pull requests and had 44 pull requests merged
- Hosted pandas sprint at **PyData Festival Amsterdam**, where I mentored 15 attendees (many of whom were first-time-contributors) while they submitted 20+ pull requests
- Added new method `DataFrame.to_markdown` (which was featured in the **v1.0.0 release notes**), fixed bugs, enhanced documentation, refactored old code, and clarified error reporting

Experience

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

- Mentored fellow employees by co-organising internal machine learning reading group: presented on SHAP values, markov chains, and bayesian methods. Upskilled teammates by delivering internal workshop in `pre-commit` and on how it leads to more productive code reviews;
- Improved accuracy/interpretability of hierarchical forecasting models and maintainability of source code (*Prophet*, *statsmodels*, *Jupyter Lab*, *CircleCI*, *pre-commit*, *Google Cloud Storage*, *wily*, *SHAP*)
- Deployed end-to-end web-scraping dashboard, including tests, automated documentation, static type-checking (*Google Cloud Platform*, *streamlit*, *scrapy*, *ScrapingHub*, *pymongo*)
- Deployed end-to-end anomaly detection module for sensor data (*pytest*, *sphinx*, *MongoDB*, *mongomock*, *PySpark*, *AWS EMR+S3*, *Docker*, *mypy*)
- Debugged Python and C++ code, allowing for Python ML model to be reliably deployed to wearable (*Tizen Studio*, *opencv*, *scikit-learn*, *pandas*)

Data Scientist at Sedex; Jun18 - Nov18

Data Scientist at Sensium; Jan18 - May18

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

Other achievements

- Kaggle:
 - Competitions expert (currently in top 1% over users):
 - * top 8% solution in *Tweet Sentiment Extraction*
 - * top 8% solution in *M5 Forecasting - Uncertainty*
 - Discussions expert
- Passed Samsung “Advanced Software Engineering Test (C++)” (£500 reward)
- Coursera: “Deep Learning Specialization”, “Applied Data Science with Python Specialization”
- During BSc: Foster Award for “exceptional mathematical ability”, Level2 Award for highest grades