

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 41 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*)
- Passed internal “Advanced Software Engineering Test (C++)” (£500 reward)

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
- Coursera: “Deep Learning Specialization”, “Applied Data Science with Python Specialization”

- During BSc: Foster Award for “exceptional mathematical ability”, Level2 Award for highest grades
- Holder of Tutoring Standards’ Professional Tutoring Certificate

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