Marco Edward Gorelli

Education

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

of Reading; Distinction

Courses: Computational Stochastic Processes (65), Partial Differential Equations (80), Dynamical Systems (84.2), Data and Uncertainty (63.1), Numerical Methods

(67.13)

Dissertation: Modelling the cloud and snow surface via KPZ equation (78.6)

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

versity of Oxford

Courses: Machine Learning (64), Categories Proofs and Processes (66), Quantum Computer Science (76), Networks (70), Computational Game Theory (70).

Dissetation: Deductive verification of the s2n HMAC code (65)

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

Class Honours

Dissertation: The Tutte Polynomial and the Merino-Welsh Conjecture (91)

Open source

nbQA I'm the authour of this code quality tool for Jupyter Notebooks.

100% test and documentation coverage + continuous integration.

Source code: https://github.com/nbQA-dev/nbQA

pandas I'm been a 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 at-

tendees

Added new method DataFrame.to_markdown (featured in the v1.0.0 release

notes)

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

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