Georgios Giasemidis

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Work Experience

Apr. 2022 – present Lead Data Scientist, Choreograph, WPP (former Sandtable), London.

Data science and model building of complex systems focusing on Agent Based Modelling (ABM) simulations, ML, geo-spatial data science, and generative AI in Python with applications in marketing and advertising.

- Line and team management
- Stakeholder management
- Data strategy and solutions design
- Consultancy on data science projects and solutions across the organisation
- Team development and strategy
- Mentor of data scientists and data technologists across the organisation
- ABM for automotive and retail clients
- Generative AI applications (data chat-bots)
- Geo-spatial data science with applications in retail
- Apr. 2019 Senior Data Scientist, Choreograph, WPP (former Sandtable), London.
 - Apr. 2022 Data science and end-to-end development, implementation and execution of ABMs.
 - ABMs for a number of sectors; automotive, retail, health (Covid-19 vaccine rollout), media. • Project management.
- Dec. 2013 Senior Data Scientist, CountingLab LTD, Reading.
 - Apr. 2019 Data analytics in (i) energy, (ii) retail & (iii) defence sectors. Data analysis, research and mathematical modelling. Implementation of machine learning algorithms in Python, analysis of output and presentation of results. Main Projects:
 - Short & medium term energy demand forecasting. Modelling future demand low-voltage networks for the TVV project, in collaboration with SSEN, funded by Ofgem.
 - Customer segmentation and emergent behaviour patterns for retail client.
 - Sentiment & social network dynamics, funded by MoD.
 - Development of algorithms for identifying the veracity of rumours (fake news) (Phase 1 & 2), funded by MoD. Expertise in Twitter-data collection. Research lead and project co-management.
 - Automatic threat detection of firearms in X-rays, funded by SBRI via InnovateUK. Research lead and project management.
 - Energy demand forecasting for smart storage control.
 - Dissagregation of energy demand for SMEs, in collaboration with ANDtr, funded by InnovateUK.
 - Achievement: Joint 3rd place in Global Energy Forecasting Competition 2014.

Education

Oct. 2009 - Sep. D.Phil. (Ph.D.) Theoretical Physics, University of Oxford, Kellogg College, Thesis title: 2013 Spectral dimension in graph models of causal quantum gravity.

- Spring Term 2009 Visiting Researcher, University of Bonn, Theoretical Physics, via Socrates Erasmus programme.
 - Oct. 2004 Jul. B.Sc. Physics, University of Athens, Graduated with "Excellence", 9.06/10, second best grade in 2009 the year out of 200 students. First-class honours degree.

Tech Stack

Data Science Stack Python (excellent); pandas, numpy, scipy, sklearn. Ten years of experience.

SQL (excellent), GCP (very good), Snowflake (very good), AWS (good), Docker (good), C/C++ (good), Matlab (good), Mathematica (good).

Methods & • Agent Based Modelling (ABM) simulations.

- techniques Geo-spatial data science.
 - Generative AI applications.
 - Machine learning: supervised, semi-supervised & unsupervised algorithms, feature reduction techniques, biased datasets.
 - Optimisation algorithms: genetic algorithms, integer programming, etc., see Publication for further details.
 - Time-series & forecasting methods: time-series analysis, recurrence quantification analysis, kernel density estimation, quantile regression, machine learning regression methods, see Publication 1 and Publication 2 among others for further details.
 - Natural language processing and message stance classification, see Publication for further details.
 - Image processing: thresholding, key-point detection, object detection, see Publication for further details.
 - APIs, e.g. Twitter, Facebook, ESPN NBA, Euroleague-API.
- Research & Strong mathematical background, analytical and numerical skills.
- mathematics 13 publications in peer-reviewed journals, 6 in peer-reviewed international conference proceedings, 2 book chapters, with hundreds of citations. Details on Google scholar profile.
 - Mentor Participated in KaggleX's mentorship programme as mentor. Mentoring young data scientists at work.
- Side Projects NBA fantasy analytics, see blog on Medium.com. Predicting the outcome of Euroleague basketball games, article on arXiv.org. Euroleague shot charts and analytics. Generative AI apps.

Interests

Sciences, raspberry pi applications, Lego enthusiast, scuba diving, travelling and sports. Sports analytics, particularly basketball.