

Pier Paolo Ippolito

Email: pierpaoloippolito28@gmail.com — Mobile: +447904579210

WebSite: ppiconsulting.dev — LinkedIn: linkedin.com/in/pierpaolo28 — GitHub: github.com/pierpaolo28

PROFESSIONAL SUMMARY

GenAI Solutions Architect at Google and INSEAD Alumni with an interest in research areas such as Data Science, Machine Learning and Product Development. As a result of my work experience, I had the opportunity to work with large scale software projects collaborating effectively within different teams. Aside from my work activities, I am a technical writer/editor (**more than 1.5M views**) and Azure x4, GCP, AWS, Databricks certified.

AREAS OF EXPERTISE

Programming Languages: Python/SQL/R/Scala/Typescript.

Frameworks: TensorFlow/Keras/PyTorch/Scikit-learn/Apache Spark/MLFlow/Plotly.

Technologies: Azure/AWS/GCP/Palantir Foundry/Databricks/Snowflake/dbt/Airflow/Tableau/Docker/RPA/Git.

Soft Skills: Product-Project Lifecycle Management/Pre-Sales/Fluent in English and Italian.

EMPLOYMENT HISTORY

Google, London, UK

GenAI Solutions Architect

Jun. 2024 – Present.

- Leading use case engagements in Google Cloud Platform (GCP) division to help top UK&I customers develop Generative AI applications with Gemini, Claude, LLama, etc..
- Contributed to LLM Agents and RAG Search projects for clients such as hedge funds and telecommunications companies.

PPI Consulting, Zürich, Switzerland

Founder

Apr. 2019 – Present.

- Contributing part-time as an Editor and Writer for [Towards Data Science](#) ([link](#)), with more than **1.5 million views** worldwide. Published articles and courses about Artificial Intelligence and Software Development in partnership with [platforms](#) ([link](#)) like Anaconda, freeCodeCamp, and ODSC.
- Tested, validated and showcased products** from companies such as O'Reilly, Remo.ai, TechTree, and Kili Technologies.

Swiss RE, Zürich, Switzerland

Data & AI Engineer (Center of Excellence), Assistant Vice President

Apr. 2022 – May. 2024

- Facilitating the adoption of Swiss Re Data Platform (7k+ users) to process and enrich petabyte-sized data using Apache Spark on Palantir Foundry/Databricks and enable Data & AI applications on a global scale.
- Managed a team of 4 developers for the development of an actuarial use case impacting **portfolios of \$ 500M+**. The project has been presented to Swiss RE Executive Committee as a key success for the adoption of our data platform.
- Piloted the adoption of **LLMs (GPT3.5 Turbo)** in Swiss RE most important claims automation initiative (**14TB of data**).

SAS Institute, London, UK

Pre-Sales Data Scientist

Aug. 2020 – Mar. 2022

- Effectively worked in the pre-sales division in order to help SAS enterprise customers solve various cloud based challenges (e.g. Azure, AWS) designing tailor made data-driven solutions and ML/DL models to best fit their needs.
- Ideated and developed a MVP (minimum valuable product) for a new SAS service to be developed at the EMEA level with a potential of **£3 million annual revenue**.
- Designed the ETL pipeline to track and visualise the UK learning technologies award winning programme SAS STEP.

ION Group, Woking, UK

Summer-Intern, Software Engineer

Jul. 2019 – Sept. 2019

- Improved ION's Fidessa online framework working in the **Financial Derivatives Automation** Team. This role involved working on the client-side using Javascript, and on the server-side using SQL.
- Throughout this experience, I attended daily Scrum meetings with the rest of the team in order to ensure the best division of workloads and punctual delivery.

Documation Software Ltd, Southampton, UK

Spring-Intern, Software Engineer

Apr. 2019 – Apr. 2019

- Created and implemented two programs using UiPath as a **Robotic Process Automation** ([link](#)) tool to automate supplier's registration and creation of invoices into financial systems (e.g. Sage 50).
 - The two developed programs have then been successfully deployed to production and used by Documation and its customers. Their application has been proved to **speed up processes up to three times**.
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PUBLICATIONS & PROJECTS

Applied Data Science in Tourism

- Contributed to the publication of "[Applied Data Science in Tourism](#)" ([link](#)) comprising Springer's series "Tourism on the Verge" (**more than 70K accesses**).
- As part of this project, I covered the 12th chapter of the book, in which were discussed some of the most common Hyperparameter Tuning techniques used in Machine Learning and how they can be used in various tourism related data-driven applications.

Open Source Contributions

- Initiated various open source projects ([link](#)) and products like [SapiensLink](#) ([link](#)) using programming languages such as Python, R, and Typescript (**more than 450 followers on GitHub**). Some of my most interesting projects regarding topics such as Computational Finance and Reinforcement Learning are currently available in my [Artificial Intelligence Projects GitHub repository](#) ([link](#)).
- Previously enrolled in the **AWS Community Builders** program as a Data Specialist, creating AWS enablement material and providing feedback on new AWS features.

Causal Reasoning in Machine Learning

- Nowadays Machine Learning technologies rely just on correlations between the different features. Although, this approach can possibly lead to wrong conclusions since correlation does not necessarily imply causation.
- As part of [this research study](#) ([link](#)), I **created and deployed on Azure a suite of Agent Based and Compartmental Models** in order to simulate epidemic diseases developments in different types of communities.

Alleviate Children's Health Issues through Games and Machine Learning

- Developed a suite of games designed to help children affected by disabilities. The games were synchronised with a EEG wearable device used to register the children brain activities. By analysing the brainwaves data **using a Long Short Term Memory (LSTM) model, it was possible to correctly classify with 96.9% accuracy if a child was affected or not by autism**.
- An online publication about this research project is available at [this link](#). To successfully manage this project, different project management tools such as Gantt charts and Risk Assessment Matrices have been used.

EDUCATION

INSEAD, Singapore, Republic of Singapore

Executive Education, Management Acceleration Programme (MAP).

Mar. 2024 – Sept. 2024

University of Southampton, Southampton, UK

MSc Artificial Intelligence

Sept. 2019 – Sept. 2020

Distinction (86%).

Key Modules: Evolution of Complexity (95%), Deep Learning (92%), Reinforcement & Online Learning (85%).

University of Southampton, Southampton, UK

BEng (Honours) Electronic Engineering

Sept. 2016 – June. 2019

First Class Honours Degree (78.68%), top 2% Electronics and Computer Science Department.

Key Modules: Computational Biology (95%), Machine Learning (83%), Robotic Systems (88%), Dissertation (89%).

AWARDS & SCHOLARSHIPS

- Awarded various technical **cloud certifications (Azure, AWS, GCP and Databricks)** on platforms such as [Credly](#) ([link](#)), [Accredible](#) ([link](#)), [Google Cloud Training](#) ([link](#)) and [Coursera](#) ([link](#)).
- Hursley Prize for Outstanding Computer Science Project 2018/19 (Dissertation: **89%**).
- Electronics and Computer Science 2016 Excellence Scholarship - monetary award for exceeding university requirements.

ACTIVITIES

Events

- Google Developer Group (London) member 2021, TEDxLondon Volunteer 2021, Facebook Analytics Academy 2018, J.P. Morgan: Introduction to Big Data Analytics using Spark and Python 2018 (Spark data-set challenge winner).

Hackathons

- [Kaggle Competitions](#) ([link](#)), Google BGN 2019 London Hackathon, Facebook London Hack 2019: First Challenge Winner, Hack The South 2019: Best Hardware Prize Winner.

Microsoft Student Ambassador

- As part of my Master Degree, I have been a Microsoft ambassador at the University of Southampton. Thanks to this role, I had the opportunity to organise and present Workshops and Hackathons events using Microsoft Azure technologies.

Societies

- I have been a **founding committee member** of the University of Southampton Artificial Intelligence Society for which I organised workshops covering topics such as Machine Learning deployment and Natural Language Processing.

CONFERENCES

Meetups Speaker

- Participated as a **speaker in various online conferences and meetups** such as the Microsoft Reactor of London and Google Developers Group (Zürich). Some of these recorded sessions, are freely available on [my website](#) ([link](#)).

Open Data Science Conference 2020 (Europe)

- Took part at the 2020 Open Data Science Conference as a team member of the SAS UK booth, in order to showcase the latest advancements of the SAS Viya data analytics platform.

Mobile World Congress 2019

- Attended the 2019 Mobile World Congress in Los Angeles (US) as a **press member for NVIDIA** to find out how 5G technologies can be used to enhance AI powered applications.