

Pier Paolo Ippolito

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OBJECTIVE

I am a final year MSc in Artificial Intelligence student at the University of Southampton currently seeking a graduate role position from September 2020. I have a strong interest in AI advancements and machine learning applications (such as financial markets and medicine). Outside my degree course, I am a writer for Towards Data Science and a Kaggle Contributor.

EDUCATION

- **University of Southampton** Southampton, UK
MSc Artificial Intelligence; On course for a First Class Honours Degree. *Sept 2019 – Sept 2020*
 - **Key Modules:** Reinforcement and Online Learning, Computer Vision, Computational Finance, Intelligent Agents.
- **University of Southampton** Southampton, UK
BEng (HONS) Electronic Engineering; First Class Honours Degree (78.68%). *Sept 2016 – June 2019*
 - **Key Modules:** Computational Biology (95%), Foundations of Machine Learning (83%), Robotic Systems (88%), Dissertation (89%).
 - **Dissertation - Alleviate children's health issues through games and Machine Learning:** Developed a suite of games designed to help children's affected by disabilities. These games are synchronised with a wireless EEG wearable device used to register the children brain activities. Analysing the brainwaves data, using a Long Short Term Memory (LSTM) model, has then been possible to correctly classify with 96.9% accuracy if a child is affected or not by autism.
- **Liceo Scientifico Enrico Fermi** Aversa, Italy
*Esame di Stato (A-Level Equivalent); Esame di Stato = 99/100 (A*AA Equivalent).* *July 2011 – July 2016*

RELEVANT EXPERIENCE

- **Digital-Dandelion** London, UK
Data Scientist *Sept 2019 - Present*
 - **Customer First:** Digital-Dandelion is a technology driven company focused in providing AI powered solutions for medical and insurance companies.
 - **Financial Data Analysis:** As a Data Scientist, I am currently working on analysing how changes in Stock Prices can affect different company shares parameters (Level 2 Data) and how can these be predicted. To do so, different techniques such as Feature Selection/Engineering and Ensemble Learning have been employed.
- **Towards Data Science** Southampton, UK
Data Science Technical Writer/Editor *Apr 2019 - Present*
 - **Towards Data Science (TDS):** [Towards Data Science](#) is free online Programming Medium publication with almost 300K followers.
 - **Technical Writing:** I am currently both an Editor and Writer for this publication. As a writer, I frequently publish articles about Artificial Intelligence and Software Development, receiving on average more than 20K views per month.
- **Fidessa** Woking, UK
Summer-Intern, Service Delivery Developer *Jul 2019 - Sept 2019*
 - **Financial Services:** Fidessa is a financial services company with offices all around the world. Every year \$26 trillion worth of transactions flows across Fidessa global network.
 - **Web Development:** As part of my experience, I improved the Fidessa online tools framework working in the Financial Derivatives Automation Team. This role involved working on the client-side using HTML/CSS/JavaScript, and on the server-side using SQL.
- **Documation Software Ltd** Southampton, UK
Spring-Intern, Software Developer *April 2019 - April 2019*
 - **Robotics Process Automation (RPA):** I designed and implemented two programs using UiPath to automate supplier's registration and creation of invoices into financial systems (Sage 50).
 - **Execution Speed Up:** The two programs I developed are currently used by Documation and its customers. Their application has been proved to speed up these processes up to three times.

FREELANCING/PROJECTS

- **Projects:** A collection of my individual projects is available online on my [Personal Website](#) and [GitHub Account](#). Some examples are: a personal [Augmented Reality Business Card](#) and an [Interactive Dashboard](#) to analyse Facebook Stock Markets and Performance Metrics.
- **Freelancing:** I had the opportunity to work part time with companies such as: Xperty and Proofer.com. As part of my freelancing working experience for Xperty, I analysed Financial Time Series data in order to predict Stock Market Prices. In order to do so, different techniques outlined in Research Publications such as [CNN-based stock market prediction using a diverse set of variables](#) (by Ehsan Hoseinzade and Saman Haratizadeh) and [A comparative study on techniques used for prediction of stock market](#) (by Lakshmi Tharun Ponnamp et al.), have been used.
- **Kaggle Contributor:** I regularly take part in Kaggle Competitions and contribute to open source Kernel analysis.
- **Hackathons:** Facebook London Hack 2019: First Challenge Winner, Hack The South 2019: Best Hardware Prize Winner.
- **Additional Experiences:** Barclays - Technology Spring Intern, University of Southampton - ECS Research Intern, Sagar Energy Solutions - Business Innovation Programme.

ACTIVITIES

- **Microsoft Student Partner:** I am currently a Microsoft Ambassador at the University of Southampton. As part of this role, I organise and present Workshops and Hackathons events using Microsoft Azure technologies.
- **Events:** Facebook Analytic Academy 2018, J.P. Morgan: Introduction to Big Data Analytic using Spark and Python 2018 (Spark data-set challenge winner), Microsoft: Deep Learning Data Analysis in Azure Workshop.
- **Awards:** At completion of my Undergraduate Dissertation, I received an award for "Outstanding Computer Science Project". Additionally, in my first year of studies at the University of Southampton, I have been awarded a scholarship for exceeding the top entry criteria.
- **Societies:** I am a committee member of the [University of Southampton Artificial Intelligence Society](#) (Advanced Workshop Officer) for which I frequently organise workshops covering topics such as: Machine Learning models deployment, Natural Language Processing, Recommender Systems and Sentiment Analysis.
- **Volunteering Experience:** University of Southampton Career Fair, Open Days, UCAS Visit Days ambassador, Informatics Technician for "Libreria Il Dono" (2014-2015), Scout Association Member (2007-2012).

SKILLS

- **Programming Languages:** Python/R/SQL/MATLAB/C/C++/UIPath.
- **Web Development:** HTML/CSS/JavaScript.
- **Frameworks:** TensorFlow/Keras/PyTorch/Apache Spark/BigQuery/PySyft/Plotly/Dash/RAPIDS.
- **Interests:** Security in AI, Big Data Analysis (Spark,Dask), Data Visualization (Plotly), Research in AI advancements.
- **Soft Skills:** Team Building/Project Lifecycle Management (SCRUM)/Fluent in English and Italian.
- **Writing/Presentation Software's:** LaTeX/Microsoft Office/Markdown/Prezi/Camtasia.

REFERENCES AVAILABLE UPON REQUEST
