**Angelo Di Gianvito**

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| Email: [a.digianvito@hotmail.it](mailto:a.digianvito@hotmail.it) Portfolio: [portfolio](https://adgianv.github.io/) | Github: [adgianv](https://github.com/adgianv) | LinkedIn: [angelo-di-gianvito](https://www.linkedin.com/in/angelo-d-157381105/) |

**EDUCATION**

Master in **Data Science, Pompeu Fabra (Barcelona)** (September 2023 - Present)

* **Relevant courses:** Computing for Data Science, Machine Learning, Computational Deep Learning, Deep Learning for Image Analysis, Reinforcement Learning, Advanced Methods in NLP, Text Mining, Big Data Management, Networks.
* **Proficiency in:**
  + NLP (LLMs, Transformers, RNNs and LSTMs, Knowledge Distillation, Fine Tuning, Prompt Engineering, BERT embeddings, W2V, tokenization), NLTK, SpaCy.
  + Computer Vision (CNNs, Object Location, Semantic Segmentation, U-NET, Siamese).
  + Reinforcement Learning (Markov DPs, deep Q networks, MonteCarlo, SARSA, Dynamic Programming).

**42 Software Engineering School** (February 2023 - Present)

* Software Engineering Project based using C Programming Language
* **Relevant topics**: data structures, algorithms, memory management, error handling and debugging, concurrency and multithreading, version control systems, OOP and strict design patterns.
* Low-level programming concepts applied on complex applications ([Github](https://github.com/adgianv/42CodingSchool) repository).

Bachelor in **Economics and Business Economics, Maastricht University** (August 2018 - February 2022)

* **Relevant courses**: Quantitative Business, Quantitative Methods (I, II, III), Brand Management, Marketing Strategy and practice, Banking, Financial Markets.

**WORK EXPERIENCE**

**Accenture Song/ Accenture – Design and Technology Intern**        (June 2022 - January 2023)

* Product management of Web Platform and Mobile app for Public Administration digitization (Ministry of Economic and Finance) with 10,000 users.
* Bug detection and fixing, performance optimization, testing.
* Ensuring platform Live status meeting business needs and accessibility standards.
* Benchmarking, business modelling, and content management and creation.
* Working with teams of Frontend Developers and UI/UX Graphic Designers.
* Tools used: Jira, Confluence, Figma, AWS.

**PROJECTS**

**NLP -** [Financial News Sentiment Analysis on Twitter: Large Language models, Advanced augmentation techniques and Knowledge Distillation](https://github.com/adgianv/NLP-Transformer_architectures-Financial_Sentiment_Analysis_Twitter)

* **Predicting sentiment** in financial tweets, with a 3-label classification problem on Hugging face dataset.
* Simulating situation of limited data availability to compute augmentation techniques: Text Generation, Zero/Few Shot Learning, Word2Vec Similarities and other.
* Techniques and models used involve LLM fine Tuning, Knowledge Distillation, Zero Shot Learning, RNNs, BERT.
* Results obtained on the full dataset of 9000 observations optimized with augmentation techniques were close to state of the art (86.8% accuracy).

**Deep Learning** - [Patient’s Health Prediction using Neural Networks and Ensembles](https://github.com/adgianv/DeepLearning-MLP_Patients_Health_Predictions)

* **Advanced classification tasks** using a comprehensive patient dataset to predict critical outcomes: length of stay of the patient and mortality forecasting.
* Key Objectives:
  + Mortality Prediction: Utilizing K-Nearest Neighbors (KNN) and Support Vector Machines (SVM) algorithms to forecast patient mortality
  + Length of Stay Prediction: Employing Neural Networks (Multilayer Perceptron - MLP) and Ensemble methods (Stacking) to predict patient length of stay.

**SKILLS**

*Technical*: Python (Tensorflow, Keras, Pytorch, Numpy, Pandas, NLTK, Scikit-learn, BeautifulSoup, Selenium, etc.), C, R, SQL, Git, BigQuery, Postgres, MongoDB, DBMS, Neo4j, Cloud, Software Development, Matlab, Jupyter Notebook, Excel, Bash.

*Soft*: critical thinking and analysis, complex problem-solving, stress tolerance, flexibility, negotiation, active learning

*Spoken Languages*: English (Proficient), Italian (Native), Spanish (Fluent), French (Fluent)**.**

*Additional training***:**Machine Learning – DeepLearning.ai (Coursera)

Google Data Science – R, SQL, BigQuery, Google Sheets (Coursera).