**Angelo Di Gianvito**

|  |  |  |
| --- | --- | --- |
| 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/) |

Phone: +39 3313144019

**EDUCATION**

MSc **Data Science, Pompeu Fabra University** (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).

BSc **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.

**A-level Diploma, Ashbourne Sixth Form College London** (September 2017- July 2018)

* One-year Fast track A-level Program (Condensing exams in a single year).
* Subjects: Mathematics, Economics and Italian.

**WORK EXPERIENCE**

**Design and Technology Product Management (Intern) - Accenture (Song)** (June 2022 - January 2023)

* Product management of a web platform and mobile app dedicated to Public Administration digitization for the Ministry of Economic and Finance.
* Coordinated end-to-end development of one full section of the platform achieving the platform live status, successfully making it accessible to 10,000 users.
* Aligned platform development with business objectives ensuring Accessibility standards.
* Resolved 95% of reported bugs within 24 hours, leading to an improvement in system performance and efficiency.
* Collaborated closely with cross-functional teams of Frontend Developers and UI/UX Graphic Designers to integrate solutions and elevate overall project quality.
* Leveraged advanced tools including Jira, Confluence, Figma, and AWS to streamline workflows and maximize project outcomes.

**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 a HuggingFace 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 embeddings.
* 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 and Ensemble methods (Stacking) to predict patient length of stay.
* Results obtained show and 87% accuracy in Mortality forecasting of patients and an MSE of 4 for Length of stay prediction.

**SKILLS & ADDITIONAL TRAINING**

*Additional training***:**

**Software Engineering, 42 Roma Luiss Coding School**  (February 2023 - Present)

* Software Engineering Project based school - 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 on complex applications (Github repository).

**Machine Learning** – DeepLearning.ai (Coursera).

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

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

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

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