

Daniele Moltisanti

R&D Data Scientist - Machine Learning Engineer

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Profile

I'm a Data Scientist, Google Cloud Certified, passionate about making advantage of data for solving real case problems, through AI algorithms. Currently, Technical Manager of Conversational AI projects at Youtility Center. Experienced in developing ML/DL models from scratch, customizing them for outperforming in a specific business use cases. Mainly experienced in NLP algorithms and time-series forecasting related to finance.

Technical Skills

- Languages: Python, Bash, Matlab, SQL, Java, C
- Tools: Git, Docker, Docker-Compose, Colab, Jupyter Notebook
- Frameworks: Pytorch, Tensorflow 2.x, Keras, Rasa 2.x, Flask
- Libraries: Scikit-Learn, NLTK, Spacy, Pandas, Numpy, Scipy, Matplotlib, Seaborn, Bokeh, OpenCV
- Soft Skills: Problem solving, Perseverance, Leadership, Cooperation

Work Experience

- R&D Data Scientist** 01/2021 - present
Youtility Center S.p.A Milan, Italy
 - Managing Technical aspects of Conversational AI projects (chatbots).
 - Achieved over 95% accuracy relative to NLU (natural language understanding) models.
 - Achieved over 95% accuracy relative to NLG (natural language generation) models.
 - Handled complex chatbot (more than 150 intents).
 - Developing and managing the backend and the infrastructure needed for the conversational models.
 - Developed multi-bot infrastructure, managing multiple bots inference in parallel.
 - Developed multi-language and multi-domain chatbots.
 - Making use of AWS services, such as storage (S3), IaaS (EC2), database (Aurora).**Tools:** Python, Tensorflow 2.x, AWS, Git, Rasa 2.x, Docker, NLTK, Spacy, SQL
- Data Scientist** 05/2020 - 01/2021
Accenture S.p.A Milan, Italy
 - Developed a custom NER model for the document understanding task related to Financial Industry, starting from a small dataset
 - Achieved over 95% accuracy relative to the entity classification of documents, even if the small input data
 - R&D relative to NLP tasks such as Entity Extraction and Named Entity Recognition (NER)
 - Developed a custom Computer Vision denoising model for noise reduction in documents, achieving relevant improvements for the OCR task
 - Developed projects making use of Google Cloud Platform (GCP) services, such as IaaS (compute instances), PaaS (app engine), storage**Tools:** Python, Pytorch, Tensorflow 2.x, Keras, CUDA, Git, OpenCV, Google Cloud Platform
- Master Thesis Researcher** 09/2019 - 04/2020
Politecnico di Milano Milan, Italy
 - Title: "Anomaly Detection through Ganomaly: patch-wise training and transfer learning"
 - Goals: introducing improvements to the Ganomaly state-of-the-art for **Anomaly Detection**, in order to achieve a **more efficient** training for any-dimension images and a **more effective** performances through the transfer learning technique**Tools:** Python, Pytorch, CUDA, Git

- **AI Engineer - Internship** 09/2018 - 02/2019
Reply S.p.A Milan, Italy
 - Contributed in the development of a virtual assistant, where I developed the cognitive model for classifying fashion items in images.
 - Experienced with IBM Watson services
 - Integrated the cognitive model into the telegram channel, handling RestAPI

Tools: Python, Pytorch, CUDA, Git, IBM Watson

Education

- **Master's Degree in Computer Science and Engineering** 09/2019 - 04/2020
Politecnico di Milano Milan, Italy
- **Athens Programme** - course: From Complexity to Intelligence 03/2019 - 03/2019
Telecom Paris-Tech Paris, French
- **Erasmus project** 01/2018 - 06/2018
Universitat Politecnica de Valencia Valencia, Spain
- **Bachelor's Degree in Computer Engineering** 09/2014 - 07/2017
Politecnico di Milano Milan, Italy

Certifications

- **Associate Cloud Engineer** - Google Cloud Certification 10/2020
- **Spanish B2 level** - FIDESCU 10/2017
- **English Toeic** - ETS Global B.V. 09/2017

Courses

- **Coursera**
 - MLOps Fundamentals 03/2021
 - Machine Learning for Trading Specialization 03/2021
 - Sequence Models Specialization 05/2020
- **Qwiklabs**
 - Sequence Models for Time Series and NLP on Google Cloud 12/2020
 - Advanced ML: ML Infrastructure 09/2020
 - Image Understanding with Tensorflow on GCP 11/2020

Personal Projects

- **Finance Anomaly Detection** | Python, Pytorch, Git, Pandas 11/2021 - present
 - Nowcasting of financial time-series in order to detect anomalies.
 - Anomaly labeling, Price analysis, Feature engineering on financial data
- **Financial Sentiment Analysis** | Python, Pytorch, Flask, Git, Pandas 09/2020 - 06/2021
 - Developed an NLP engine for sentiment detection on news
 - Developed a Client-Server architecture: the client side consists on a UI, developed with streamlit and the server side was developed with Flask API.

You can see all my personal projects on [my portfolio](#)