Daniele Moltisanti

R&D Data Scientist - Machine Learning Engineer

Linkedin: www.linkedin.com/in/daniele-moltisanti
Portfolio: https://daniele21.github.io
Email: danielemoltisanti@live.it
Contact: +39 3337337311

Profile

I'm a Data Scientist passionate about making advantage of data for solving real case problems, through AI algorithms. Specialized in NLP techniques and Technical Manager of Conversational AI projects. I'm Google Cloud Certified, experienced also in Computer Vision algorithms and investing my free time into Time-Series Forecasting algorithms for finance.

Technical Skills

- Languages: Python, Matlab, SQL, Java, C, Bash
- Tools: Git, Docker, Jupyter Notebook
- Frameworks: Pytorch, Tensorflow 2.x, Keras, Rasa 2.x, Flask
- Libraries: Scikit-Learn, NLTK, Spacy, Pandas, Numpy, Scipy, Matplotlib, Seaborn, Plotly, 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 Techical aspects of Conversational AI projects (chatbots)
  - Achieved over 90% accuracy relative to NLU (natural language understanding) models
  - Achieved over 90% accuracy relative to NLG (natural language generation) models
  - Handled complex chatbot (more then 150 intents)
  - Taked care of the pipeline automation for CI/CD of chatbots
  - Making use of AWS services, such as storage (S3) and IaaS (EC2)

  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 an **more efficent** training for any-dimension images and a **more effective** performances through the trasfer 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 Infrastracture** 09/2020
  - **Image Understanding with Tensorflow on GCP** 11/2020

Personal Projects

- **Algorithmic Trading** | Python, Pytorch, Git, Pandas 03/2021 - present
  - Developing a time-series forecasting model for stock trends, basing on meta-labeling techique.
  - Analysis, Feature engieneering and pair trading startegy are used for the trading algorithm
- **DL Soccer Prediction** | Python, Pytorch, Flask, Git, Pandas 09/2020 - present
  - Developed a soccer match prediction model for european tournaments, based on a custom deep learning network, achivieng over 130% of gain in 3/4 tournament rounds.
  - Developed an MLOps pipeline,triggered by API calls, for training automations and model updates

You can see all my personal projects on my portfolio