FEDERICA BALDI

Computer Engineer with a major in AI

Born in Pisa (Italy), 12/06/1997
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WORK EXPERIENCE

Machine Learning Engineer
Sparkd.AI, Dublin
FEBRUARY 2022 – PRESENT
- Development of **tailored AI solutions** for companies in various industries, with expertise in **Computer Vision**
- Experience with developing Machine Learning pipelines in **Python**, using libraries such as **Scikit-learn**, **TensorFlow**, and **PyTorch**

EDUCATION

MSc in Artificial Intelligence and Data Engineering
University of Pisa, Department of Information Engineering
SEPTEMBER 2020 – SEPTEMBER 2022
Final mark: 110/110 cum Laude
- **Studied** Data Mining, Machine Learning, Deep Learning, Computer Vision, Information Retrieval, Natural Language Processing, Reinforcement Learning, NoSQL Databases, Cloud Computing, IoT
- **Thesis:** *Action Detection in Complex Rugby Video Sequences in both Professional and Amateur Settings* (in collaboration with Sparkd.ai)
  Topics: Video Action Detection, Computer Vision, Deep Learning

Bachelor of Computer Engineering
University of Pisa, Department of Information Engineering
SEPTEMBER 2016 – JULY 2020
Final mark: 105/110
- **Studied** Programming, Relational Databases, Computer Networks, Operating Systems, Software Engineering, Cryptography, Economics
- **Thesis:** *Temporal Analysis of Sporting Events based on Clustering of Keyword Occurrences on Twitter*
  Topics: Temporal Analysis in Social Media, Fuzzy Clustering, Machine Learning

PROJECTS (PARTIAL LIST)

- MARCH 2022 – A solution to the **NLP** Quora Question Pairs challenge leveraging approaches like **LSTM**, **Siamese Architecture** and **Transfer Learning** (Human Language Technologies course)
- FEBRUARY 2022 – Implementation of an **image search engine** that can recognize bird species using a **Deep learning** architecture (Multimedia Information Retrieval & Computer Vision course)
- DECEMBER 2021 – **Deep learning** architecture in **Python** leveraging **convolutional layers** for the **classification** of B-Cell lymphoblasts in white blood cells microscopic **images** (Computer Intelligence & Deep Learning course)
- JUNE 2021 – Health monitoring system written in **Python** for a set of **Docker** hosts that exposes a **REST** interface and which components communicate with **RabbitMQ** (Cloud Computing course)
- JUNE 2021 – Implementation of the **MapReduce** PageRank algorithm using the **Hadoop** framework in **Java** and the **Spark** framework both in **Python** and in **Java** (Cloud Computing course)
- FEBRUARY 2021 – Social application written in **Java** for sharing musical tastes that uses a **machine learning classifier** to decide the genre of the songs. The database used is **Neo4j** (Data Mining & Machine Learning course)

SKILLS

- Python
- C/C++
- MATLAB
- JavaScript
- Java
- SQL
- Erlang
- HTML/CSS

- TensorFlow
- Scikit-learn
- NumPy
- PyTorch
- OpenCV
- Pandas

- Linux/Ubuntu
- Hadoop/Spark
- AWS
- Docker

LANGUAGES

- **Italian**: Native
- **English**: Full Professional Proficiency (CAE – Grade A)
- **Spanish**: Medium Professional Proficiency (DELE B2)
- **French**: Elementary Proficiency