

Work Experience

University of [REDACTED]

Padua, Italy

RESEARCH INTERN (THESIS)

02/2019 - 07/2019

- Developed novel **Machine Learning** and **Deep Learning** models for Alzheimer diagnosis on 3D MRI (Magnetic Resonance Images) of the brain improving accuracy to more than 75%. [Code | Paper]

[REDACTED]

Remote, Italy

SOFTWARE ENGINEER INTERN

11/2018 - 01/2019

- Created a prototype of WEB API service that send SMS. Capable of **saving** up to **95%** of **costs (\$)** comparing to all other online similar services.
- Using **Java**, **JavaScript**, NodeJS and Android. [Code]

Education

University of P [REDACTED]

Padua, Italy

MSc IN COMPUTER ENGINEERING

10/2019 - Present

- Coordinated Telegram groups of 600+ students in order to help them collaborate
- Organized Lecture notes, exercises and sum-ups for 17 courses enabling students to achieve higher grades [Link]
- Main courses:** Web Applications, Big Data, Machine Learning, Deep Learning, Advanced Algorithms, Distributed Systems, Internet of Things and Smart Cities, Operation Research 1 & 2, Innovation, Entrepreneurship, Finance, Strategic Enterprise Management

University of P [REDACTED]

Padua, Italy

BSc IN COMPUTER ENGINEERING

07/2019

- Main courses:** Artificial Intelligence, Databases, Data structures & algorithms, Operative Systems, Computer architectures, Control Theory, Electronics, Discrete Math, Probability, Linear Algebra, Calculus 1 & 2, Physics 1 & 2, Project Management, Business Administration

Projects

Web Platform for the Mathematical Optimization of the Traveling Salesman Problem

PYTHON, FLASK, C, CPLEX, HTML5, CSS, BOOTSTRAP, JAVASCRIPT

- Deployed a Web Platform that uses 26 Heuristic algorithms to solve the TSP problem, far just 1% from the optimum. [Code | Demo | Paper]

eCommerce and Dashboard for Internet of Things

JAVA, JAVASCRIPT, HTML5, CSS, SPRING BOOT, REACT, POSTGRESQL, MATERIAL-UI, DOCKER

- Developed and Deployed an Online platform that allows to buy IoT sensors and monitor them trough a dashboard, awarded as best project of the course. [Code]

Web Plagiarism Detector

PYTHON, ADVANCED ALGORITHMS, HTML5, BOOTSTRAP 5, JAVASCRIPT

- Designed advanced pattern matching algorithms and deployed a Platform that finds similarities between documents in order to detect plagiarism. This is the number 1 free plagiarism detector (as 2021). [Code | Demo]

Web API to SMS

JAVA, JAVASCRIPT, NODEJS, ANDROID

- Built a system that takes API calls and sends SMS. Capable of saving up to 95% of costs comparing to all other online similar services. [Code]

Airbnb clone

POSTGRESQL, HTML5, PHP, BOOTSTRAP, CSS

- Coded a clone of the Airbnb website as the final project for the Database course, awarded as best project of the course. [Code | Report]

Key-Word Spotting with DeepLearning

NLP, DEEP LEARNING, PYTHON, TENSORFLOW, KERAS

- Architected a Machine Learning system that detects a set of predefined words in an audio stream. Optimized to work under limited computational resources. Improved accuracy to 96.8%. [Code | Paper]

Fake news Detection on social media posts

NLP, DEEP LEARNING, PYTHON, TENSORFLOW, KERAS

- Implemented Machine Learning algorithms to detect if a social media post contains fake news. Leading to 94.7% of accuracy. [Code | Paper]