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Education

Faculty of Engineering of the University of Porto (FEUP)

Sep 2017 - Present (Exp. Jul 2022)

INTEGRATED MASTERS (BSc + MSc) IN INFORMATICS AND COMPUTING ENGINEERING

Porto, Portugal

- Current cumulative GPA: 18.47 / 20. Currently on my 5th year out of 5.
- Relevant coursework: Systems Architecture, Distributed Systems, Web App Development, Algorithms & Data Structures, Artificial Intelligence
- Received a Merit Scholarship in the 2018/19 Academic Year, given to the best students in Portugal.
- Currently studying abroad for one semester, through the ERASMUS program, at Aalto University , in Espoo, Finland.

Jobs & Experiences _

Amazon Web Services 🗹

Jun 2021 - Sep 2021

SOFTWARE DEVELOPMENT ENGINEER INTERN

Berlin, Germany

- Decreased memory consumption of the training workflow by ~93% and allowed a potential throughput increase from 50K time series to 1M time series, by developing a pre-processing phase that converts datasets into a more efficient format.
- Performed extensive testing and performance benchmarking, in order to report execution times, memory consumption and CPU usage.

INESC TEC [₹

Feb 2020 - May 2021

RESEARCH ASSISTANT - "BIG DATA FOR ENERGY"

Porto, Portugal

- Developed a platform to foster energy analytics for R&D institutions, by automating energy and weather data collection and management.
- Automated energy data collection by making scripts that periodically fetch data from APIs of electricity data sources in Europe.
- Implemented missing values detection by developing a module that monitors DB with 130+ tables, each one with an average of 3 million rows.
- Allowed registered users to extract desired data by building an authentication layer and a REST API, and by helping create a user interface.
- Main technologies used: Python, Django, Pandas, Apache Cassandra, RabbitMQ, Celery, Nginx, Vue.js, Docker, GitLab CI/CD.

Faculty of Engineering of the University of Porto (FEUP)

Feb 2021 - May 2021

TEACHING ASSISTANT

Porto, Portugal

· Helped students in the IART - Artificial Intelligence subject with search and optimization algorithms, and Machine Learning exercises.

Critical Software 🖸

SOFTWARE ENGINEER INTERN

Coimbra, Portugal

· Built a real time chat service using Java and Kafka, and an encryption/decryption system for smart meter data with Java, SSL and XML.

Projects

Labcentric - Monitoring and Management System for Laboratories 🗹

Oct 2020 - Jun 2021

LARAVEL (PHP), HTML/CSS/JS, POSTGRESQL, PYTHON, MQTT, NODE.JS, RASPBERRY PI, DOCKER, NGINX, HEROKU

Team of 8 people

- Team leader of a project developed for the Dr. Ricardo Jorge National Health Institute 2.
- Developed a web app for management of reagents, samples, procedures and executions, results, and other important data for the institute.
- Developed a system that monitors user actions during a lab procedure, by identifying QR Codes on reagents and recognizing voice commands.
- Allowed users to configure input/output devices that best suit their needs, by designing an extensible and scalable plugin-based architecture.

Artwork Recognition using Bag of Words and CNNs 🗹

May 2021 - Jun 2021

PYTHON, JUPYTER NOTEBOOK, KERAS, SKLEARN, MATPLOTLIB, SEABORN

Team of 4 people

- Developed a system that can perform classification of images, applied in this case to the artwork collection dataset provided by the Metropolitan Museum of Art in New York 2.
- Implemented several methods and techniques to solve the problem, like using a Bag of Words descriptor + classifier, and using Convolutional Neural Networks, and evaluated the performance of each method using relevant metrics.

Covid Forecast Tool 🗹 May 2020 - Jun 2020

Python, Jupyter Notebook, SKLearn, Pandas, Numpy, Matplotlib, Seaborn, Kaggle datasets

Team of 3 people

- Created a tool that predicted Covid-19 cases and deaths for various countries/regions, with ~90% accuracy, by training several regression models using Covid-19 data from a Kaggle dataset that contained the confirmed, death, and recovered cases for each day.
- · Compared several Machine Learning algorithms, such as Neural Networks, Support Vector Machines, K-Nearest Neighbours and Random Forest.

Skills

Git, Python, Jupyter Notebook, Java, Javascript, C/C++, HTML/CSS/PHP, Node.js, SQL, REST API, OOP - Proficient

Technical Pandas, Numpy, Docker, React, CI/CD, Agile/Scrum, Unix/Linux - Medium Understanding

SKLearn, Matplotlib, NoSQL, AWS - Prior Experience

Portuguese (Native), English (Full Professional Proficiency), Spanish (Limited Working Proficiency), French (Basic understanding)

Languages