António Capela

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Links

 GitHub **antcap96**

 Linkedin **appcapela**

Coursework

GRADUATE

Advanced Algorithms
Computability and Complexity
Artificial Intelligence
Machine Learning
Reinforcement Learning
Time Series Analysis
Probability Theory
Statistical Learning
Dissertation: An Adaptive and Transferable Dialog Management System for Social Aware Task Execution [1]

Skills

PROGRAMMING

Python • Julia • C • C++ • SQL • Scala

MISCELLANEOUS

Shell • LaTeX • Git • Microsoft Office • Confluence

Languages

ENGLISH

C1
Certificate obtained by achieving grade A on the FCE exam in 2013.

PORTUGUESE

Mother Tongue

Certificates

MICROSOFT – AZURE

Azure Data Scientist Associate
Azure AI Engineer Associate

Education

INSTITUTO SUPERIOR TÉCNICO

Bachelor's degree in Engineering Physics

📅 Sep 2017   📍 Lisbon

INSTITUTO SUPERIOR TÉCNICO

Master's degree in Mathematics and Applications

📅 Sep 2020   📍 Lisbon

Experience

MACHINE LEARNING INTERN

LIP Summer Internship

📅 July 2017 – August 2017   📍 Lisbon, Portugal

- Data analysis on simulated data of di-Higgs production from CERN's ATLAS experiment.
- Application of Machine Learning techniques like Neural Networks and Boosted Decision Trees to discriminate *background* collisions from di-Higgs generating collisions.

DATA SCIENTIST

Data Scientist Consultant at Xpand-IT

📅 Oct 2020 – current   📍 remote work, Portugal

- Developed a kafka stream for a major european agency to perform real time inference using a model trained using pyspark in azure databricks that was serialized with MLeap. A kibana dashboard was setup to monitor the model performance over time.
- Worked with the Data Science team at a portuguese major bank. The work consisted of data analysis and transformation using pyspark to create kedro pipelines automated with airflow and the creation of Machine Learning models.
- Worked with an Irish Startup to develop an image classification model automated using azure Data Factory

Personal Projects

SQLINPYTHON

SQL library in python

Inspired by python code that created strings containing SQL queries and with the goal of improving my knowledge in: SQL, creating a python library and static typing in python with mypy, I ended up developing from the ground up a toy library to mimic SQL syntax but using python objects with static checks that ensure the SQL syntax is valid.

References

[1] Antonio Capela et al. "An Adaptive and Transferable Dialog Management System for Social Aware Task Execution". In: *EPIA Conference on Artificial Intelligence*. Springer. 2019, pp. 232–243.