



António Capela

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Links

GitHub **antcap96**
LinkedIn **appcapela**

Education

IST

BACHELOR'S DEGREE IN
ENGINEERING PHYSICS
Sep 2017 Lisbon

IST

MASTER'S DEGREE IN
MATHEMATICS AND APPLICATIONS
Sep 2020 Lisbon

Dissertation: An Adaptive and
Transferable Dialog Management
System for Social Aware Task
Execution [1]

Skills

PROGRAMMING

Python Julia SQL Rust C
C++ Scala

MISCELLANEOUS

Linux LaTeX Git Azure
Bash

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

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.
- Development of a Machine Learning model with Neural Networks and Boosted Decision Trees to identify collisions that generate di-Higgs particles.

Python Keras Data Analysis XGBoost

DATA SCIENTIST

DATA SCIENTIST CONSULTANT AT XPAND-IT

Oct 2020 – current remote work, Portugal

- Currently allocated to a large retail company, developing in Azure Databricks, having worked on:
 - Development of demand forecasting models based on gradient boosting trees.
 - Introducing a MLOps pipeline with Azure DevOps pipelines.
 - Implementing metrics and visualizations for model quality monitoring.
 - Development of a data quality validation framework.
- Worked with the Data Science team at major Portuguese bank for over 1 year. Some of my key responsibilities included:
 - Creating ETL pipelines using pyspark that were orchestrated with Kedro and Apache Airflow;
 - Development of Machine Learning models to be used by other teams at the bank.
- Developed a classification model in Azure Databricks for a major european agency. The model, a gradient boosting tree (LightGBM), was implemented as a real-time inference model in a Kafka stream.
- Worked for an Irish Startup, where we developed an image classification model. The model utilized a Convolutional Neural Network implemented with Keras, leveraging transfer learning from the VGG16 model.
- Performed sentiment analysis using Azure Cognitive Services and keyword extraction with YAKE to identify reasons for complaints in feedback forms.

Databricks Python Machine Learning Spark ETL Azure

Sklearn Keras

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.