

ónio Capela

+351969874351 @ acapela96@hotmail.com

Links

GitHub antcap96 in Linkedin appcapela

Education

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

С Python Julia SQL Rust

Scala

MISCELLANEOUS

Linux LaTeX Azure

Bash

Languages **ENGLISH**

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

PORTUGUESE

Mother Tongue

Certificates

MICROSOFT - AZURE

Azure Data Scientist Associate Azure Al 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
- 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, were 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.
- Currently working for a large retail company, working on data handling and forecasting in Azure Databricks. My responsibilities involve data pipelines for data ingestion and ML model monitoring.

Databricks

Python

Machine Learning

Spark

ETL

Azure

Sklearn

Keras

Personal Projects WRITING AN INTERPRETER

LEARNING TO CODE IN RUST

In my personal journey of learning Rust, I chose to follow the book: Writing An Interpreter In Go. This book describes the step-by-step process of implementing an interpreter from scratch for a toy language called monkey-lang with code examples written in Go. I am Currently creating my own implementation in Rust, with code in my personal github account.

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.