












# Diogo Costa e Silva

Curriculum Vitae

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## EDUCATION

**Integrated Master's Degree in Information Systems Engineering and Management**

University of Minho

Guimarães, Portugal

2016 - 2023

**High school**

Escola Portuguesa de Moçambique - CELP

Maputo, Mozambique

2012 - 2016

## MY PROFILE

Originally from Braga, Portugal, I'm a 25-year-old student currently finishing my Master's Degree in Information Systems Engineering and Management.

I consider myself to be entrepreneurial, always keen to get involved in new projects, communicative and team-oriented, with the ability to adapt to changes and new realities in a committed, optimistic and responsible way.

## PROFESSIONAL INTERESTS



Data Science



Machine Learning



Project Management



Web Development

## KNOWLEDGE AREAS

### Data Science and Artificial Intelligence

Application of the CRISP-DM methodology in Data Mining projects;

#### Extraction, Analysis and Data Processing

Talend O.S.; Python (numPy, pandas); R (dplyr, tidyverse); Spark

#### Data Visualization

Python (Matplotlib, seaborn); R (ggplot2); Tableau; PowerBI

#### Modeling and Evaluation

Python (scikit-learn, statsmodels); R (caret)

### Databases

Knowledge of the implementation and management of Relational Databases (MySQL) and Non-Relational Databases (MongoDB) and experience with HDFS.

### Technical infrastructures

Experience in creating a cluster of several Linux machines and installing the Hadoop framework, enabling the creation of a distributed storage and processing system.

LANGUAGES

Portuguese (Native)

Reading Comprehension Writing



English

Reading Comprehension Writing



Spanish

Reading Comprehension Writing



SPORTING ROUTE



**Swimming**  
Sporting Clube de Braga  
2006 - 2011



**Football**  
Academia de Futebol Bragafut  
2008 - 2012

Business Intelligence

Ability to analyze data relating to business processes and specific indicators of a given organization, which can be transformed into relevant information for top management, so that the decision-making process becomes more accessible, informed and fluid, adding value to companies.

Project Management

During my time at university, I gained experience in this area through various group projects. I fully understand the importance of good planning when designing a project, and the need for continuous management and monitoring throughout its development, combined with motivational leadership that continually seeks to improve its business processes.

Web Development

I have skills in developing websites and web apps using front-end (HTML, CSS, JavaScript and React) and back-end (Node.js) languages and frameworks.

TECHNICAL SKILLS

Python	<div><div></div><div></div><div></div><div></div><div></div></div>	MongoDB	<div><div></div><div></div><div></div><div></div><div></div></div>
R	<div><div></div><div></div><div></div><div></div><div></div></div>	MySQL	<div><div></div><div></div><div></div><div></div><div></div></div>
Talend O.S.	<div><div></div><div></div><div></div><div></div><div></div></div>	Project Managem.	<div><div></div><div></div><div></div><div></div><div></div></div>
Tableau	<div><div></div><div></div><div></div><div></div><div></div></div>	Web Development	<div><div></div><div></div><div></div><div></div><div></div></div>
Power BI	<div><div></div><div></div><div></div><div></div><div></div></div>	Spark	<div><div></div><div></div><div></div><div></div><div></div></div>

EXPERIÊNCIA PROFISSIONAL

- Researcher with academic scholarship in the Rev@Construction project**  
University of Minho - Guimarães, Portugal  
February 2022 - June 2023

I was responsible for designing and developing a road sidewalk monitoring system using Big Data technologies such as Hadoop, Spark and Delta Lake. In this project, in addition to the technological infrastructure, I also developed the data pipeline from its ingestion into the system to the creation of historical analyses.