

CARLOS SIMÕES

ELECTRICAL AND COMPUTER ENGINEER

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ABOUT ME

Enthusiastic soon-to-be full fledged engineer, eager to learn and make a positive impact on the world through work and life. I strongly believe in technology as an enabler of change, and would like to help steer this change in the right direction.

My interests include Robotics, Artificial Intelligence, Computer Vision and Machine Learning.

MY EDUCATION

- MSc Electrical and Computer Engineering**
IST-Instituto Superior Técnico [Lisboa, Portugal](#) [2018 – 2022](#)
 - Major: Systems, Decision and Control [Robotics, Artificial Intelligence, Computer Vision and Machine Learning]
 - Minor: Computers [Computer Architecture and Network Management]
- BSc Electrical and Computer Engineering** [UC-Universidade de Coimbra](#) [Coimbra, Portugal](#) [2015 – 2018](#)

MY EXPERIENCE

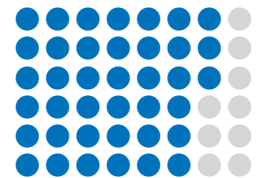
- Machine Learning & AI Engineer**
Nokia [Lisboa, Portugal](#) [2021 – Ongoing](#)
 - Developed and evaluated machine learning models and training data to improve performance and quality.
 - Collaborated with cross-functional teams to understand requirements and implement them into technical specifications and features for use in chatbots.
 - Improved the accuracy of the company's chatbot by 20% through the use of machine learning and NLP techniques.
- AI Academy**
Accenture [Lisboa, Portugal](#) [2021 – 2021](#)
 - Capable in Big Data technologies such as Hadoop and NoSQL.
 - Skilled in data analysis using Python, Pandas, numpy, Scikit-learn, and deep learning.
 - Experience with data visualization tools such as Excel, PowerBi, and Qlik Sense.
 - Familiar with ingestion and processing of large amounts of data on AWS.
- General Coordinator of the Pedagogy Department**
Electrical Engineering Student Association [Coimbra, Portugal](#) [2017 – 2018](#)
 - Implemented the "Delegates of the Year"
 - Raised awareness and pedagogical training of both teachers and students
 - Launched and Promoted pedagogical surveys and Pedagogical Forums
 - Restructured the curriculum reform of MIEEC
- Internship**
Installatiebedrijf Andriessen [IJsselstein, Utrecht, Netherlands](#) [2014 – 2014](#)
 - Designed and developed 3D and 2D draws in AutoCAD

ACOMPLISHMENTS

Deep Learning Specialization [Coursera](#) [2022](#)
3D Estimation of Visual Focus of Attention [IEEE International Conference](#) [2022](#)
Machine Learning with Scikit-learn [Inria](#) [2022](#)
EF SET English Certificate (C2 Proficient) [EF Standard English Test](#) [2020](#)
Computer Vision Basics [University at Buffalo](#) [2020](#)
Data Analysis, Data Science with Python [Cognitive Class](#) [2021](#)
Problem Solving | Rest API | Python (Basic to Intermediate) [HackerRank](#) [2020](#)
Top 3% of Students Award [University of Coimbra](#) [2016–2017](#)

HARD SKILLS

Python
Matlab
AI & ML
C/C++
Version Control, Git
Automation



MY PROJECTS

Stereo-Based Gaze Detection for Human-Robot Interaction Engagement

[ISR - Instituto de Sistemas e Robótica](#)

2020 - 2021, IST

In my thesis, I developed an algorithm for capturing the Visual Focus of Attention from gaze and head pose for improved Human-Robot Interaction. The algorithm used stereo systems to estimate depth and perform 3D reconstruction, allowing for the calculation and tracking of objects that a person is interested in. Panoptic segmentation was used for environment classification. The results of the project were published in a *Paper*.

Artificial Intelligence

[Python](#)

-Airline Scheduling And Routing (ASAR) problem: Developed and implemented an A* algorithm to solve the ASAR problem.

-Fire detection in a museum: Addressed the problem of detecting fires in a museum using artificial intelligence techniques.

Predict Subscription to Bank

[Python](#), [Pandas](#), [Matplotlib](#), [Sklearn](#), [PowerBI](#)

Developed an end-to-end platform that uses machine learning to predict whether customers will or will not subscribe to a bank program. The project included exploratory data analysis, model building and evaluation, and visualization of the results.

Gender Detection through Eyes Images

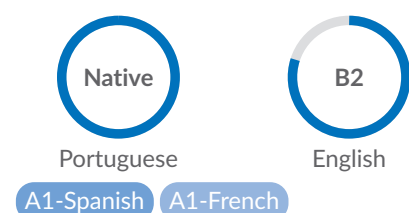
[Python](#), [Pandas](#), [Numpy](#), [Tensorflow](#)

Developed a gender recognition system using deep learning methods to scan eye images and determine the gender of the patient.

SOFT SKILLS

Curious Responsible Persistent
Creative Collaborative Adaptable
Emotional intelligent

LANGUAGES SKILLS



WHAT I ENJOY

[Travel](#)
[Getting lost](#)
[Chess](#)