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

Native — Portuguese
B2 — English
A1-Spanish · A1-French

WHAT I ENJOY

- Travel
- Getting lost
- Chess