

JOÃO ANTÓNIO

A Data Scientist with a background in Physics, Mathematics and Computer sciences. Driven self-starter, fast learner, quick to adapt and creative problem solver who is constantly endeavouring for a good challenge or a fresh project.



CONTACT

✉ joaoantant@gmail.com
☎ +351 919 192 886
📍 Aveiro, Portugal
📧 @JoaoAnt
🏠 JoaoAnt
📺 JoaoAntAnt
📅 April 10, 1996
🚗 B, B1

SKILLS

Programming

Python	●●●●●
Matlab	●●●●●
Gnu Octave	●●●●●
Bash, CMD & PowerShell	●●●●●
R	●●●●●
SQL	●●●●●
C	●●●●●
JavaScript	●●●●●
React Js	●●●●●

Markup Languages and Related

HTML/CSS	●●●●●
LaTeX	●●●●●

Data Science Fields

Data Handling/Analysis	●●●●●
Visualisation	●●●●●
GUI Developer	●●●●●
SQL	●●●●●
Data Extraction (OCR)	●●●●●
Python BackEnd	●●●●●
Image Processing	●●●●●
Git, Docker & Cloud	●●●●●
Machine Learning	●●●●●
Python FrontEnd	●●●●●
Data Mining	●●●●●
NLP	●●●●●

Languages

Portuguese	●●●●●
English	●●●●●
Spanish	●●●●●
Italian	●●●●●

(Link to my Certifications)

(All text in blue are links)

WORK HISTORY

📅 Oct 2020 - Apr 2020

📍 Captova Automation's Inc, Canada

Unique Data Scientist

Data extraction and processing from any document, any language using OpenCV, OCR, PDF data extraction, Machine Learning, Parsers.

A Research and development project with a customer driven solutions.

- Development of a GUI for internal usage, design to be used for operators of the company, capable of testing, creation and training of a basic reinforced ML using tkinter and SQLite. This way a non-coding operator could use the our engine to create algorithms to extract information.
- Development of a Web app and API for external usage, with architecture in FastAPI, Vannila JS + React JS, PostgreSQL and Heroku deployment, that communicated with the GUI. Allowing any client to upload a document and have the data extracted in seconds.
- This engine created by us entered a competition to extract information from Canadian forms.

EDUCATION

📅 2014 - 2018

📍 Universidade de Aveiro, Portugal

Bachelor in Physics

- Project: **A One Dimensional Model of Opinion Dynamics with Bounded Confidence** using Matlab, Multi variable curve fitting app in limit cases this model would replicate the results of voting models, on the other limit cases would replicate the results of interaction models.
- Bachelor with options orientated to Computational Physics, Computer Sciences, Mathematics, Complex systems.
- Academic Usage of Matlab, Gnu Octave, R, Python, Bash, Linux, C.

SOME SIDE PROJECTS

(Link to Notes)

- 2021 Test-Driven Django Rest API with Geo-localization - Django Rest, PostgreSQL, PostGis, Docker, Django-Filters;
- 2020 Power Networks Dynamics: Modelling, Failures, Robustness and Optimizations - Python, Simulated Annealing, Networks, Optimization, Needed-Redundancies;
- 2019 Phase transition in the Ising model - Python, JupNB;
- 2019 Two-dimensional random walks, First passage time and the survival probability, Lévy flights - Python, JupNB;
- 2019 Feature Preparation, Selection and Engineering for machine learning - Python, JupNB;
- 2018 Higgs Boson Machine Learning Challenge-Matlab, Machine Learning Package - explanation, usage and abstraction of the most simple ML algorithms - Matlab, ML App, Curve Fitting App;
- 2015 GUI that was able to detect and track object motion in videos of free falling object to calculate the gravity acceleration to infer if the video was slowed down or speed-ed up - Matlab, GUI Creation App;
- 2014 Bot to beat an Online Gaming Casino during Beta - Python, OpenCV, Pyautogui;

HOBBIES & INTERESTS

Books & Comics

Board Games

Kendo

League of Legends

Teamfight Tactics