PABLO CAMPILLO SÁNCHEZ

I am passionate about problem-solving using Artificial Intelligence techniques and getting value from data. Continuous improving and learning is my natural state. I am currently working on applying deep learning models for estimating steel of concrete structures of buildings and optimization of complex problems using AI. More info at `www.pablocampillo.pro`.

CONTACT

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SKILLS

Backend Python Developer

Python
Git
SQL
TDD
Flask/FastAPI
AWS Serverless Stack

DevOps

Linux command line
Docker
AWS SAM
CI/CD Bitbucket Pipelines
AirFlow

Data Scientist

Jupyter Notebook
Pandas/Polars
MLFlow/DVC
Scikit-learn
TensorFlow/Keras/FastAI
Dashboards
(Bokeh)

Team Lead

Jira
Communication
Approach. Availability
Organisation
Delegation

CERTIFICATES

2023 - Microsoft Azure Fundamentals
2023 - Green Software for Practitioners
2017 - Scrum Manager Authority Level: 150 PDAs
DataCamp
2018 - Data Scientist with Python Track

WORK HISTORY

03/2023 - 09/2023
Version 1, Spain
Senior Python Developer
Develop services for a Data Management Platform of a client.

09/2020 - 03/2023
CLERHP ESTRUCTURAS SA, Spain
RD Team Lead And Data Scientist
Lead a development team in a reinforced concrete structure engineering company for its digitization using Artificial Intelligence.

04/2020 - 8/2020
Infomicro, Spain
Research And Python Developer
Development of a system for 24/7 monitoring pigs based on processing video images.

02/2019 - 6/2020
University of Murcia, Spain
Associate Professor
Advanced Subjects such as Business Intelligence, Multi-agent Oriented Programming, Intelligent Systems.

01/2017 - 3/2020
ANSWARETCH SL, Spain
Big Data Project Manager and Developer
Development of ML services on a Big Data project (Transforming Transport), a library for offline facial recognition on a mobile application, and algorithms for processing satellite images on serverless architecture.

01/2013 - 12/2016
Universidad Complutense de Madrid, Spain
PhD Student
I was involved in SociAAL, a research project that aims at the development of a software oriented towards the early development and rapid prototyping of AmI systems.

01/2013 - 12/2016
University of Murcia, Spain
Research Assistant
I was involved in several research projects where I implemented PoCs using Java programming language.

EDUCATION

09/2021 - present
Universitat Oberta de Catalunya (UOC), Spain
Master Of Data Science
Optional subjects: Deep Learning and Reinforcement Learning

01/2013 - 12/2016
University of Murcia , Spain
PhD Computer Science
Thesis titled "Model Driven Development for Ambient Intelligence Simulations". Supported by a PhD Grant.

09/2011 - 09/2011
University of Murcia , Spain
Master on New Technologies in Computer Science
Project titled "An Infrastructure of Social Simulation for Testing and Validation of Android Applications before their deployment".

09/2001 - 09/2008
University of Murcia , Spain
Computer Science Degree
Project about the optimization of a segmentation algorithm (MSER) for computer vision.

PORTFOLIO

Steel Ratio Estimation

A project that aims at predicting steel of reinforced concrete structures for making budgets. Both a tool for gathering and management of data and a notebook for training Keras models was developed. The model was deployed with an API using AWS serverless technologies such as API Gateway and Lambda.
Technologies: Notebook, Pandas, Keras, DVC, AWS Serverles.

Topology Optimization In Concrete Structures

A tool based on a genetic algorithm for optimization of concrete structures given a set of constrains. The tool was integrated in FreeCAD.
Technologies: DEAP, FreeCAD.

COVID-19 Vaccination Dashboard

An Interactive COVID-19 Dashboard Demo built on Bokeh to analyse vaccination evolution of EU/EEA countries by age ranges, vaccine brand and date range.
Technologies: Pandas, Bokeh.

Sustainable Connected Cars Pilot

This pilot is focused on cars that belong to different sort of companies interested in achieving an efficient management of their fleets. 20k vehicles were managed using technologies such as MongoDB, Python and AirFlow. A Dashboard for monitoring vehicles was developed using Bokeh. For estimating fuel consumption a Random Forest Repressor algorithm was trained. A set of jupyter notebooks were created for Data Analysis Exploration.
Technologies: Python, MongoDB, AirFlow, Bokeh, Notebook, Pandas, Keras, Nameko.

Offline Face Recognition

A system to identify farmworkers using mobile phones through face recognition. It aims at avoiding identity fraud of workers. A backend system was developed to update the ML model with new photos of workers and synchronize the devices. DLib and TensorFlow were used as base technologies.
Technologies: Python, DLib, TensorFlow, Flask.