DAVID MARQUÉS GARCÍA

Software Developer/ Data scientist/ Machine learning engineer

SKILLS

Python   3+ yrs

Mathematical Analysis   3+ yrs

Programming   3+ yrs

Html/CSS   1+ yrs

SQL   1+ yrs

C++   1+ yrs

LANGUAGE SKILLS

Spanish

English

French

Japanese

CONTACT

+34 615883332

davo.enterprise@gmail.com

PROFILE

Software developer with a strong analytical and theoretical foundation and a passion for Python programming.
My physics training gives me a strong understanding of the mathematical concepts behind programming, while my psychology training has helped me develop good interpersonal skills.

WORK EXPERIENCE

Machine Learning Researcher   Apr 2023 - Now
Universidad Autónoma de Madrid

Different projects developing and training machine learning solutions for material science research

- Development of machine learning models and libraries
- Data cleaning for the model's consumption

Technologies include:

- Python, with libraries such as pandas, scikit-learn, Keras and others
- SQL

Achievements include:

- Data cleaning for machine learning training
- Development of a machine learning and ETL library

Software Developer with Appian   Oct 2022 - Apr 2023
Capgemini

Different projects developing software and applications with appian

- Creation of a web portal for reports and task management
- Development of new role-based workfows and processes, as well as training and support
- Maintenance of existing infrastructure

Technologies include:

- Appian

EDUCATION

2015 - 2021

B. Sc. Physics.

Universidad Autónoma de Madrid

Degree in Physics where I studied programming languages such as Python, Matlab, C++, honed my analytical, mathematical and problem solving skills. My thesis' topic was Quantum conductance on organic molecules, where I had to measure samples and use machine learning algorithms to categorize the measurements, as well as building a model of how conductance happened within the molecule.

2015 - 2019

B. Sc. Psychology.

Centro Universitario Doctor Emilio Cárdenas

Psychology degree where I learned how to communicate, handle stress and help people effectively, among other things. My thesis was a statistical report on child abuse and how to avoid it and help the people who have lived through that, mitigating the consequences.

- SQL
- MariaDB

Achievements include:

- A web based tool for an intuitive role assignment and administration
- Tools for role review, reporting and troubleshooting

Web Developer   Jul 2021 - Sep 2022
Centro Hara

Responsible for maintaining, designing and updating content of webpages, while also gathering data on different topics.

- Selection and implementation of new design ideas
- Maintenance and update of the webpage
- Data mining

Technologies include:

- Python for webscraping and ETL
- Wordpress for web design

Achievements include:

- Data mining and processing
- User friendly web design

Researcher   Jun 2018 - Aug 2018
ICMM

Internship researcher on graphene layers as buffers for growing crystals.

- Research on graphene and its properties
- Research on crystalline structures

Technologies include:

- Linux enviroment
- Vasp (Vienna ab initio Simulation Package)
- Virtual Machines
- LaTeX

Achievements include:

- Modelling graphene
- Modelling crystalline structures

CERTIFICATIONS

Specialized program - IBM AI Engineering

Awarded on: 03/04/2023

Learners who have completed this 6 course Professional Certificate have a practical understanding of Machine Learning (ML) and Deep Learning (DL). They have technical skills to start a career in AI Engineering, and can: Implement ML algorithms including Classification, Regression, Clustering, and Dimensional Reduction using scipy and scikitlearn, perform ML on Big Data and deploy ML Algorithms and Pipelines on Apache Spark, demonstrate understanding of Deep Learning models such as autoencoders, restricted Boltzmann machines, convolutional networks, recursive neural networks, and recurrent networks, build deep learning models and neural networks using Keras, PyTorch and Tensorflow libraries, and demonstrate ability to present and communicate outcomes of deep learning projects.

Specialized program - Applied Data Science

Awarded on: 13/03/2023

In this specialization learners developed and honed skills for practical data science and machine learning problems. The specialization included learning Python, as well as performing data analysis, and creating data visualizations using Python. Learners also completed a Capstone project to apply and demonstrate their newly acquired knowledge and skills.

Specialized program - IBM Data Science

Awarded on: 13/03/2023

In this Professional Certificate learners developed and honed handson skills in Data Science and Machine Learning. Learners started with an orientation of Data Science and its Methodology, became familiar and used a variety of data science tools, learned Python and SQL, performed Data Visualization and Analysis, and created Machine Learning models. In the process they completed several labs and assignments on the cloud including a Capstone Project at the end to apply and demonstrate their knowledge and skills.

Specialized program - Data Engineering Foundations

Awarded on: 27/02/2023

The earner of this certificate has demonstrated mastery of fundamental skills required for Data Engineering, including a working knowledge of the data ecosystem and lifecyle, Python programming language, working with different types of data files, using libraries such as Pandas and Numpy, invoking APIs, webscraping, performing basic ETL, and working with SQL and relational databases. The individual has hands-on practice and completed several projects working with data in multiple formats, transforming and loading and using multiple databases and tools from within the Data Engineering discipline, and using SQL to query real world datasets. The learner is now armed with the skills and knowledge to start tackling foundational level Data Engineering problems and challenges.

Machine Learning in python with scikit-learn

Awarded on: 19/01/2023

Online course on machine learning with python and Scikit-Learn, created by the developers of the scikit-learn library.

Appian Certified Developer

Valid through: 8/5/2024
Awarded on: 8/11/2022

Test on the use of the Appian platform for software development.

Learning how to learn: Powerful tools to help you master tough subjects

Awarded on: 03/01/2023

Online course about learning and how to make learning easier.