Álvaro Santos, Donamaría Solchaga

Artificial Intelligence Engineer

PROFILE

Willing to participate in a committed and constructive way in projects in the field of artificial intelligence, machine learning and deep learning

SKILLS

Python
Pytorch
FastAI
Pytorch Lightning
OpenCV
GIT - Github
SQL
Java
MatLab
C
Unity
PHP - HTML - CSS - JavaScrip
Linux

CONTACT

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Pamplona, Spain

https://www.linkedin.com/in/alvaro-donamaria-solchaga/

PROFESISONAL EXPERIENCE

Veridas | 07 / 2023 – actual

Machine Learning Engineer (facial biometrics)

Tasks within the Facial Biometrics team:

Development of Deep Learning models focused on FAS (face antispoofing) as well as facial feature analysis.

Python software development framed in best development practices.

Analysis and study of the state of the art for the implementation of artificial intelligence technologies focused on identity verification based on facial images.

Coordination with multidisciplinary teams to achieve objectives aligned with the company's business.

Public University of Navarre | 12 / 2022 – 03 / 2023

Project assistant: **ImitAI**

Tasks within the Artificial Intelligence team:

Analysis of the state of the art in topics of movement training in robotic arms through learning by imitation..

Creation of training datasets based on 3D simulators.

Training of convolutional neural networks for the prediction of movements in environments with changing tasks.

Coordination with companies in the sector (Bosch / BSH) for simulation in real production environments.

Public University of Navarre | 09 / 2022 – 06 / 2023

University teacher

Tasks:

Teaching theoretical and practical programming knowledge with Python in the Mechanical Engineering degree.

Public University of Navarre | 07 / 2021 – 12 / 2022

Project assistant: **Emotional Films** (**detailed video**)

Tasks within the Artificial Intelligence team:

Development of client server applications for capturing information for the generation of facial databases.

Development of Deep Learning models for the detection of emotions, gender, age, avoiding biases derived from ethnicity, race or age based on facial images.

ML models management throught MLflow.

Integration of Deep Learning models in multimedia technologies to develop a sample application for public demonstration.

Tracasa Instrumental | 09 / 2020 – 12 / 2020
Computer engineer, internship contract, Pamplona

Tasks performed within the **R&D team**:
Treatment of cadastral data provided by the National Plan for
Aerial Orthophotography.

Collection and manipulation of satellite images from the Sentinel
missions of the European Space Agency.

Quality analysis of the data for its subsequent use in the training
of high-precision neural networks..

Programming and training in processing clusters of deep learning
models, capable of detecting and classifying buildings with pixel
precision in aerial images.
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DasNano - Veridas | 07 / 2020 – 09 / 2020
Computer engineer, internship contract, Pamplona

Tasks:
Testing of native and web version applications.

Capture of information in image format for training and evaluation.

Identity spoofing simulations in the services offered by the
company.

Analysis of VR/AR technologies for their incorporation into native
applications under development.
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Añorbe's city hall | 06 / 2018 – 09 / 2018

Lifeguard, Añorbe / Navarra

EDUCATION

09 / 2021 – 06 / 2023
 Master of Computer Engineering, Computer Science

[Public University of Navarre](#)
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09 / 2017 – 06 / 2021
 **Bachelor's degree in Computer Engineering. Mention
in Computing and Artificial Intelligence**

[Public University of Navarre](#)
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09 / 2018 – 01 / 2019
 University degree in Data Science

[Public University of Navarre](#)
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09 / 2017 – 06 / 2021
 **UPNA's degree of video games and virtual reality
applications development**

[Public University of Navarre](#)
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09 / 2015 – 06 / 2017
 Bachillerato

IES Sancho III El Mayor