VV

VÍCTOR H. VIVAS C.

INGENIERO INDUSTRIAL PYTHON DEV | DEEP LEARNING

TARGET

To be part of an organization where I can contribute knowledge and at the same time provide me with professional experiences, I expect to be able to grow within a company that values honesty and teamwork.

SKILLS

- Analytical Thinking.
- Resolute.
- Adaptive to situations.
- Creative.

LANGUAGES

- Spanish - Native.
- English - B1.

EXPERIENCE

PYTHON DEVELOPER - ANFLER SOLUTIONS - NOVEMBER 2020 - CURRENT.
In charge of the development of a web scrapping module for process automation, using Python, Selenium, Apache-Kafka, Docker and SQLAlchemy.

CONTINUOUS IMPROVEMENT ADVISOR - MINISTRY OF PRODUCTION - NOVEMBER 2018 - CURRENT.
To date I have been in charge of surveying, analyzing and proposing improvements to the internal processes of the Ministry, I have managed to simplify multiple procedures that citizens and companies had to carry out, through the implementation of several management and interaction tools.

PRODUCTION MANAGER - PLASTIMEC - DECEMBER 2016 - OCTOBER 2018
Company in the plastics sector. Responsible for the management of plant resources, materials and collaborators, directing groups of employees of 60 people in order to meet the production, quality and sales goals of the company, also supporting in the correction of process problems and installation of new machines.

For details of previous employment please see profile on LinkedIn.

HANDLING OF

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- Python.
- Tensorflow.
- Keras.
- Jupyter.
- Numpy.
- Pandas.
- OpenCV.
- Selenium.
- Django.
- Linux.
- SQL.
- Docker.
- Git.
- Jira.
- Taiga.
- SolidWorks.
- CamExpress.
- Design of injection molds.
- Plastic injection.
- CAMEXPRESS computer-aided machining.

TRAINING UNIVERSITY

INDUSTRIAL ENGINEERING - NOVEMBER 2012 - UNIVERSIDAD JOSÉ MARÍA VARGAS.
Grade work: Automation of the hopper feeding process of a thermoplastic products production plant by injection and extrusion.

MECHANICAL TECHNOLOGY - NOVEMBER 2006 - UNIVERSIDAD SIMÓN BOLÍVAR.
Preparer of thermodynamics and mechanics subjects, assistant in the electrical energy conversion laboratory.

COMPLEMENTARY TRAINING

DIPLOMA IN PYTHON - FEBRUARY 2020 - NATIONAL TECHNOLOGICAL UNIVERSITY-UTN-FRBA**.**
It comprises the completion of 3 levels of training in the Python programming language (Basic, Intermediate, Advanced), with topics ranging from variable assignment to implementation of design patterns, creation and use of metaclasses, modules, decorators and others.

PROBABILITY AND STATISTICS LABORATORY IN PYTHON - APRIL 2020 - INSTITUTO TECNOLÓGICO DE BUENOS ARES- **ITBA**.
Preparation for the diploma in Deep Learning, it deepens in the use of Python modules for statistical analysis such as Numpy, Pandas, Matplotlib, Seaborn and implements Bayesian statistics to solve classification problems.

DIPLOMA IN DEEP LEARNING - JANUARY 2021 - INSTITUTO TECNOLÓGICO DE BUENOS ARES- **ITBA**.
It includes Machine Learning, Deep Learning and Reinforcement Learning modules, developing topics of prediction and supervised and unsupervised learning, regularization techniques, recommendation systems,

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convolutional neural networks, object detection in image and video, recurrent neural networks, among others.

OWN-ACCOUNT DEVELOPMENTS

MODULE FOR FACIAL RECOGNITION:
By using convolutional cascade networks to detect faces, Siamese networks to create embeddings of each registered face and using transfer learning from the Facenet network, a simple module for face recognition in photos and videos was implemented. Next steps: include a method for presence validation for which I propose to use an infrared camera instead of a common one to create the embeddings. Main libraries used: Keras, Pytorch, Fdec, MTCNN, OpenCV, Numpy.

MODULE FOR THE DETECTION OF COUNTERFEIT TAX STAMPS:
Development of a module for identification of counterfeit tax stamps on cigarette packs. Using transfer learning of the VGG19 network with fine tuning to adjust to specific data and a pipeline for label identification and cropping (allowing to have a smaller focus, distant from the original image), project made available on web server. Main libraries used: Tensorflow, Keras, OpenCV, Albumentation, Flask.

MOVIE RECOMMENDATION SYSTEM (ACADEMIC/KAGGLE PURPOSES):
The faculty created a challenge in Kaggle, to obtain the lowest possible MSE for a movie recommendation system, achieving 2nd place in the competition.

FASHION MNIST (ACADEMIC/KAGGLE PURPOSES):
The faculty created the challenge in Kaggle, to obtain the highest possible accuracy for the classification of images from the Fashion Mnist dataset with MLP and CNN, obtaining 91% in each case with MLP and 94% with CNN's.

For more information, please do not hesitate to call or consult the LinkedIn profile.

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