MAYKOL JIAMPIERS CAMPOS TRINIDAD

Bachelor in Mechatronics Engineering

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WORK EXPERIENCE

Research Intern

Applied Computational Intelligence Laboratory (ICA, PUC-Rio)

Feb 2020 – Present Brazil, Rio de Janeiro

- Co-organizer and developer of ExperIA Bot, an application for managing messages between mentors and students, using integrations with Slack API.
- Developed a research project for sedimentary facies classification applied to seismic images.
- Implemented State-of-The-Art generative models for an intelligent chatbot.
- Provided support on data generator using TFRecord format to reduce memory needed during model training.

TensorFlow | Facies Classification | Docker | PyTorch | NLP

Machine Learning Consultant

MDP Consulting S.A.C.

Oct 2018 – May 2019 Peru, Lima

- Project: Digital Car Platform.
- Data acquisition and analysis.
- Development and deployment of Machine Learning models with cloud services (Azure).

SQL/NoSQL | Microsoft Azure | Python | Data Acquisition

Internship

Sociedad Inducontrol Ingeniería S.A.C.

Apr 2018 – Sept 2018 Peru, Lima

- Documentation of research project profiles.
- Control and electronic instrumentation.

Instrumentation | National Instruments | LabVIEW

Co-Researcher

National University of Engineering

Jun 2016 – Sept 2016 Peru, Lima

- Project development with financing from the Faculty of Mechanical Engineering.
- Contributed to the mechanical design and control simulation of a robotic hand.

Mechanical Design | Simulation | SolidWorks | MATLAB

EDUCATION

Master of Engineering - Decision Support Methods

Pontifical Catholic University of Rio de Janeiro

March 2021 – Ongoing Brazil, Rio de Janeiro

Business Intelligence Master

Pontifical Catholic University of Rio de Janeiro

May 2020 – Ongoing Brazil, Rio de Janeiro

BSc. Mechatronics Engineer

National University of Engineering Score: 14.46/20

Aug 2013 – Jul 2018 Peru, Lima

ACHIEVEMENTS

6th Place – FORCE 2020: Machine Predicted Lithology (Private Leaderboard - Xeek)
The objective of this contest was to correctly predict lithology labels for provided well logs.

Top 5 – BBVA Data Challenge 3rd Edition - 2019
One-month individual data science competition. The objective was to know how likely it is that the clients of a financial entity will stop using its products or services (attrition).

4rd Place – Data Talent Movistar 2019 (Private Leaderboard - Kaggle)
12-hour data science group competition in which we had to create a predictive model that identifies the clients with the greatest propensity to go from “active” to “no-active”.

Julio Urbina Award 2018 - Student
Delivered by "Outstanding Member in Research and Projects" by the Student Branch IEEE-UNI.

SKILLS

Machine Learning
- Python, NumPy, Pandas, Scikit-learn
- Clasification
- Timeseries

Deep Learning
- Keras, TensorFlow, PyTorch
- Computer Vision: Image Segmentation for seismic data
- NLP: Transformers for Question Generation and Question Answering

Software
- R, SQL, JavaScript, MATLAB, C++
- Microsoft Azure, AWS (SageMaker)
- Git, LaTeX, Docker, HTML5
- Stata, PowerBI

Hardware
- Arduino, Raspberry Pi 3b+

LANGUAGES

English	B2 (Certified)
Portuguese	Pre-Intermediate
Spanish	Native

PUBLICATIONS

Conference Proceedings

- Campos-Trinidad, M. et al. (2017). “Optimal control of a robotic system and software development for speech-to-sign language transliterating applications”. In: *2017 IEEE XXIV International Conference on Electronics, Electrical Engineering and Computing (INTERCON)*, pp. 1–4. DOI: 10.1109/INTERCON.2017.8079690.
- López-Zapata, E and Campos-Trinidad M. (2017). “Design of a Robotic Speech-to-Sign Language Transliterating System”. In: *International Symposiu on Multibody Systems and Mechatronics*. Springer, pp. 274–282.

CERTIFICATES

- Presented my research work in "**The International Conference on Information Management and Big Data (SIMBig) 2020**" at University of the Pacific, Lima, Peru.
- Successfully completed **Natural Language Processing Specialization** on Coursera offered by deeplearning.ai, 2020.
- Successfully completed **FUNDAMENTALS OF DEEP LEARNING FOR COMPUTER VISION** offered by NVIDIA Deep Learning Institute, 2019.
- Successfully completed **Deep Learning Specialization** on Coursera offered by deeplearning.ai, 2019.
- Successfully completed **Advanced English Program** on "Asociación Cultural Peruano Británica", 2018.

VOLUNTEERING

Chair/Secretary

IEEE Engineering in Medicine and Biology Society - UNI

Sep 2016 – Feb 2018 Peru, Lima

- Founding member of the student chapter EMBS-UNI.
- Integration of research groups to achieve publications in Conference Proceedings.
- Organization of talks, courses and workshops about biomedical engineering.

Leadership Research

REFEREES

PhD. Marco Aurelio C. Pacheco
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MSc. Ricardo Rodriguez Bustinza
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