

JONATHAN STEVEN R. PINZÓN

M.Sc in Electronic Engineering and Computer Science

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PROFILE

Electronic engineer with master in electronics and computer science. I consider myself a highly dedicated and responsible person, eager to learn new things, with the ability to work in interdisciplinary environments, and in a continuous search for how to improve as a student and as a person. Interested in artificial intelligence, applied statistics (frequentist and bayesian), machine learning, game theory and reinforcement learning. Experience in managing data flows, data pipelines, data analysis, and application of machine learning techniques to real-world problems. Also with experience in education, researching, robotics, and industrial automation. At present, I'm working at Merqueo as a Data Scientist for the analytics team.

EDUCATION

Universidad de los Andes

M.Sc in Electronic engineering and computer science

Jan 2020 – Jul 2021

Bogotá D.C, Colombia

GPA = 4.74/5.0

Key Courses:

- Machine Learning
- Computer vision
- Stochastic Processes
- Reinforcement Learning
- Control-Oriented Learning and Evolution

Universidad de los Andes

B.E in electronic engineering

Jan 2016 – Apr 2020

Bogotá D.C, Colombia

GPA = 4.28/5.0

Colegio Espíritu Santo Marianistas

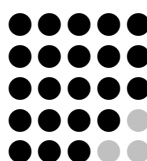
High School

Jan 2013 – Dec 2015

Girardot, Cundinamarca, Colombia

SKILLS

Data Science, Machine Learning, AI
TensorFlow, Pytorch
Pandas, Numpy, Scipy, Scikit-Learn
Git, Linux (Debian base distros)
Jax, Tableau, PowerBI



ACHIEVEMENTS

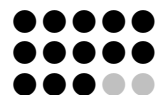
- Speaker at Analytics Forum Uniandes (Universidad de los Andes, 2021)
- Graduate excellence scholarship (Universidad de los Andes, 2020)
- Ser Pilo Paga undergraduate scholarship (República de Colombia, 2016)

HONORS & AWARDS

- Recognition for having obtained the highest grade in their degree project (Universidad de los Andes, 2019)
- Best Graduate (Colegio espíritu santo marianistas, 2015)
- Best ICFES (Colegio espíritu santo marianistas, 2015)

LANGUAGES

Spanish
English
Japanese



PROGRAMMING LANGUAGES

Python
LaTeX, Matlab, SQL, PostgreSQL
Java, Javascript, R, C, C++



PROJECTS

DeepMAP: Deep Modular Attention for Air Quality Prediction (June 2019 - Aug 2020)

- Design and implementation of a deep neural network for temporal and spatial forecasting of PM_{10} in Bogotá in a multistation environment, currently submitted to the pattern and recognition letters journal.

Classification of Net Promoter Score comments (March 2021 - Present)

- Design and deployment of a NLP classifier for NPS comments. NPS is a monthly survey sent to who have left the application or had bad experiences in previous orders, it is very important to understand what is wrong with our service and why the users are leaving. For that reason, I created a NLP model to classify the NPS comments received every month in 21 relevant categories for the company. At the beginning Amazon Comprehend was used as a first approach to the problem, but now the model uses a recurrent neural network trained in tensorflow and is deployed in the AWS cloud using lambda layers to execute the code and S3 buckets to store the information needed.

EXPERIENCES

Data Scientist Jr

Merqueo

📅 March 2021 – Present 📍 Bogotá D.C, Colombia

Graduate Research And Teaching Assistant

Univesidad de los Andes

📅 Jan 2019 – Jul 2021 📍 Bogotá D.C, Colombia

Teacher Assistant at APOI y APOII (Object oriented algorithms and programs)

Univesidad de los Andes

📅 Jan 2017 – Dec 2019 📍 Bogotá D.C, Colombia

Classroom teacher

Univesidad de los Andes

📅 December 2019 – Present 📍 Bogotá D.C, Colombia

ADDITIONAL COURSES AND SEMINARS

Generative Adversarial Networks (GANs) Specialization

deeplearning.ai

📅 Oct 2020 📍 Coursera

Natural Language Processing (NLP) Specialization

deeplearning.ai

📅 March 2021 📍 Coursera

Reinforcement Learning Specilization

University of Alberta & Alberta Machine Intelligence Institute

📅 April 2020 📍 Coursera

Deep Learning Specilization

deeplearning.ai

📅 April 2020 📍 Coursera

Deeplearning.AI TensorFlow Developer Specialization

deeplearning.ai

📅 April 2020 📍 Coursera

AWS Certified Cloud Practitioner

Amazon Web Services

📅 Sep 2021 - Sep 2024 📍 AWS

Bayessian Marketing Mix Modelling for online media networks (Jun 2021 - Present)

- Nowadays companys need to know what is the optimal way to spend their marketing resources. The MMM (Marketing mix model) models try to capture the dinamics of the target population when they are expose to certain media allowing us to make predictions and optimizations on our media spending. Currently i'm working in a geo-level marketing mix model for the online media use by Merqueo's marketing team. The model is train in python using bayessian statistics and information retrived from Merqueo's data warehouse via PostgreSQL queries.

Design and implementation of a spectrophotometer (Aug 2018 - Dec 2018)

- Worked in a team of 4 people to design and develop a spectrophotometer based in an Arduino sensor, JavaScript and HTML interface on a local webpage; Designed the structure of the spectrophotometer using AutoCAD and finally printed in acrylic . Developed a code for a color sensor of 3 bands (RGB) for the measurement of concentration of liquids by reflectance. Coded the connections between Arduino and the local web page designed in HTML5 using JavaScript. Coded a software for data analysis of the data collected from the measurements of the spectrophotometer. The project was exposed in front of teachers of the department of engineering.

REFEREES

Ph.D. Luis Felipe Giraldo Trujillo

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