




Jose Sebastián Rojas Ardila


Data Scientist
Electrical Engineer
Electronic Engineer

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 SebasAVA

Skills

Programming

Python R MySQL postgresQL

Html Java Matlab Javascript

C #

Tools

Power BI Power Apps PySpark

Tensorflow Keras Pytorch Unity

Colab GitHub Arduino Eclipse

Lightroom Photoshop

Projects

Satellite Imagery Segmentation -

Using multi band satellite imagery taken from the multispectral and short-wave infrared (SWIR) range, make the segmentation of different objects in the earth such as roads, houses, lakes and rivers, using u-net models, and finally make the localitation of each of the objects in georeferenced images.

Sentiment Analysis - Based in tweets of an airline the project analyze words to determine sentiments of the customers, the project was performed using Long-Short Term Memory Neurons in a neural network.

Education

2020 - 2022 **Master in Data Science**
Università degli Studi di Padova, Italia




2013 - 2018 **Electrical Engineering**
Universidad de los Andes, Colombia



2012 - 2017 **Electronic Engineering**
Universidad de los Andes, Colombia




Experience

Jan 2020 - Dec 2020 **Fuel Conservation Coordinator** Avianca Airlines 

- Using statistical analysis, data engineering and machine learning algorithms perform the implementation and measure fuel saving initiatives for all Avianca plane fleets.

- Crossing and treatment of information sources with pyspark, to later show results in dashboards.
- Process data and make statistical analysis using R.

April 2017 - Dec 2019 **Flight Data Analyst** Avianca Airlines 

- Data engineering with R.
- MySQL database management
- Apps development with Java.
- Creation and editing of data visualization in power BI.

Certifications

Oct 2021 - **Data Scientist with Python** Datacamp 

Oct 2021 - **Data Analyst with Python** Datacamp 

Sep 2017 - **Implementing a SQL data Warehouse** Microsoft partner 

Jun 2018 - **Boeing 787 Advanced Airline Modifiable Information** Boeing 

Research and Relevant works

2017 **Electronic Engineering** Universidad de los Andes, Colombia
Thesis: STUDY OF THE VARIABILITY OF THE CARDIAC RATE AND THE ELECTRODERMIC ACTIVITY IN SOMNOLENCE EPISODES

- Makes the association between episodes of somnolence and signs of cardiac rhythm variability and electrodermal activity was sought.
- Tools:** R, Matlab

2018 **Electrical Engineering** Universidad de los Andes, Colombia
Thesis: FORECAST OF THE PRICE OF THE ELECTRICAL ENERGY IN COLOMBIA, USING BAYESIAN INFERENCE.

- Create a model using Bayesian inference to forecast the behavior of the price of energy in the stock market, for the day-ahead market.
- Tools:** R