# Jose Sebastián Rojas Ardila

Data Scientist Electrical Engineer Electronic Engineer



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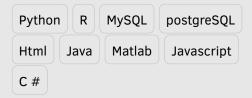
/in/SebasRA/



SebasAVA

## Skills —

### **Programming**



#### **Tools**

Power BI	Po	Power Apps		PySpark		
Tensorflo	w	Keras		orch	Unity	
Colab	GitHub		Arduino		Eclipse	
Lightroor	n P	hotos	hop			

## 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



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## **Experience**

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

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 - Flight Data Analyst

Avianca Airlines



- Dec 2019
  Data engineering with R.
  - MySQL database management
  - · Apps development with Java.
  - · Creation and editing of data visualization in power BI.

### **Certifications**

Oct 2021 -

Sep 2017 -

Oct 2021 - Data Scientist with Python

Datacamp

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**Data Analyst with Python** 

Microsoft partner



Jun 2018 - Boeing 787 Advanced Airline Modifiable Information

Implementing a SQL data Warehouse

### **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