

## SUMMARY

Agricultural Engineer leveraging data science to build ethical AI changing peoples' lives for the better. Lifelong learner, self-starter, adept at working collaboratively and efficiently. Proud user of Linux for many years. Fluent in English, Italian and Spanish.

## EXPERIENCE

### METIS

Data Scientist

New York, NY

June 2020 to Sept. 2020

Completed an intensive 12-week immersive Data Science training focused on Python, machine learning, statistical modeling, data visualization, project design, and communication. Built four independent projects from ideation to presentation. Selected work includes:

#### Metascore Predictions for Independent Movies

- Built a Linear Regression model to predict metascores for independent movies
- Scraped 27,000+ movies and award winners over the last 20 years. Modern movies with R rating, longer in runtime, from awarded directors and from genres like documentary and drama proved to have higher metascores.

#### Stress in the Office —

- Built a hybrid model with Logistic Regression (feature selection) and K-Nearest Neighbors (classification) to determine if employees of a small university were stressed or not based on physiological measurements, like temperature and heart rate.
- Based on a study of email-use patterns and interaction with office stressors, including how these interactions are mediated by individual characteristics, like age, gender, nationality, first language, education.

#### AutoTherapy — NLP for Mental Health

- Designed a recommendation engine for an NGO seeking to address the demand for free counseling due to COVID-19
- Built with MongoDB, pandas, Sklearn, Spacy and NLTK, and trained on unique content from a selected group of psychologists, psychotherapists, therapists, and writers, with the engine taking in user input around personal situations and returns posts with therapy-related practical content.

#### Controlled Chaos — A tool for taming digital clutter

- Built a web application that runs locally and automatically organizes text files based on their content.
- Built with MongoDB, Sklearn, Spacy, NLTK, Flask and Bootstrap and trained on user-selected folders, Controlled Chaos maps and classifies files, builds file clusters, and indexes them for easy application-based access.

## ADDITIONAL TECH PROJECTS

### Life Expectancy Prediction

2019

Built a Linear Regression model trained on World Health Organization data to provide estimates on life expectancy based on age, country and gender.

### Disaster Response Messages Classifier

2020

Built a Random Forest model that classifies messages into categories such as food-related, floods, earthquake, etc., to facilitate faster disaster response.

## EDUCATION

**National University of Cuyo** 2012 to 2014  
Industrial Engineering

Relevant coursework: Mathematical Analysis, Algebra, Analytic Geometry, Calculus and Numerical Methods, Technical English

**National University of Cuyo** 2015 to 2018  
Agricultural Engineering

Relevant coursework: Applied Information Technology, Descriptive and Inferential Statistics, Experimental Design, Physics

## SKILLS

### DATA TOOLS

Numpy  
Pandas  
Sklearn

### DATABASES

SQL  
MongoDB

### DATA VISUALIZATION

Matplotlib  
Seaborn  
Tableau

### WEB DEVELOPMENT PLATFORMS

Heroku  
Netlify

### CLOUD COMPUTING SERVICES

AWS  
Google Cloud Platform

### PROGRAMMING LANGUAGES

Python  
JavaScript  
Ruby  
Bash

### OTHERS

Git  
HTML  
CSS  
Jekyll  
Plotly  
Spacy  
Flask  
Django  
Pythonanywhere  
Linux