

# Nicolas Rojas

Applied mathematician | Computer scientist



## About me

I am a professional in Applied Mathematics and Computer Science, with a focus on artificial intelligence and data science, and currently completing my master's degree in Artificial Intelligence. I have worked developing deep learning models for industrial usage, which includes gathering the necessary data, researching the optimal machine learning model for the given problem, and writing the necessary code to train and deploy the final product

## Personal

Full name: Nicolas Rojas Gutierrez  
Born: Bogota, Colombia, 2000

## Areas of specialization

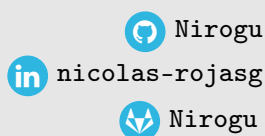
Artificial Intelligence • Data Science • Machine Learning • Signal Processing

## Interests

My main interest is applying artificial intelligence concepts and algorithms into different researching areas, like computer vision, natural language processing, cybersecurity or quantum computation. Implementing efficient computational solutions to real industry problems and challenges is my current professional objective.

## Skills

Python • Numpy/Scipy  
Scikit-Learn • PyTorch  
TensorFlow • Scikit-Image  
Spacy • Linux •  $\LaTeX$  • Git



## EXPERIENCE

2022–Now

### Machine learning engineer

RESSOLVE • Remote

Developer and main maintainer of several natural language processing (NLP) models, to solve text classification, information extraction, information obfuscation, named entity recognition and automatic speech recognition problems. Cloud technologies are used to train and deploy the models



2021–2022

### Machine learning intern

RESSOLVE • Remote

Maintained previously existing company software. This included searching and finding bugs, helping in the development of new machine learning products to comply with the client's requirements, and analyze data from the deployed models to propose new solutions and tools



2021–2022

### Freelancer developer

INDEPENDENT • Remote

Developed software solutions for several machine learning companies or related projects. These computational solutions included unsupervised learning, semi-supervised learning, data analysis, application deployment and data scrapping, depending on the requirements of the contractor



2019–2021

### Teaching assistant

UNIVERSIDAD DEL ROSARIO • Bogota, COL

Assisted several courses, such as Algorithms and Data Structures, Graph theory, Probability and Statistics. Responsibilities included in-class help for the professors, and additional classes for the students that required them



2019–2021

### Research assistant

UNIVERSIDAD DEL ROSARIO • Bogota, COL

Provided technical assistance to researchers in the Engineering school. This included implementing required software, mainly in python, and redacting experimentation results using  $\LaTeX$



## DEGREES

In progress

### Master's degree in Artificial Intelligence

M.Sc. • Universidad Javeriana



2022

### Applied mathematician and computer scientist

B.Sc. • Universidad del Rosario



## PROGRAMMING

Python



Numpy, Scipy



PyTorch



TensorFlow



R



Matlab



## CERTIFICATES & ACHIEVEMENTS

2023

### Academic merit award

HIGH GRADUATE AVERAGE • Universidad Javeriana



2018

### Academic merit scholarship

HIGH UNDERGRADUATE AVERAGE • Universidad del Rosario



## LANGUAGES

Spanish  
English

C2

Native speaker

C1

TOEFL iBT certified