

# Andre MOTTA

## PhD Student | NCSU

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📍 Raleigh, NC 🇧🇷 Brazilian Citizen



Computer Science BSC from Universidade Federal de Minas Gerais.

Interested in Machine Learning, Data Mining, Data Science (both applied and theoretical)

Interested in Applications of Software Engineering for Data Science, Data Engineering and A.I.

Interested in Networks, Algorithms, Mobile Robotics, and Economy

## 📁 PROJECTS

### PHD RESEARCH

2019 - 2022

Under the supervision of Professor Tim Menzies, researching the field of interactive search with optimizations. Working on Software product lines, specifically on selecting the optimal product while keeping in mind the opinion of the Decision Maker. Reducing cognitive overload, and reducing the number of model evaluations

Python

### NSF GRANT PROJECT

2019 - 2019

Under the supervision of Professor Tim Menzies, researching the possibility of pairing resumes with job descriptions based on several different machine learning techniques. Specially worked with optimized encodings to see whether they affect the decision process for a machine learning algorithm.

Python

C#

Javascript

### LEGGO

2018 - 2019

🔗 <https://leggo.org.br/>

Working with Professor Adriano Veloso from UFMG and Law Student Raphael Rangel from FDMC. We are researching inconsistencies in the lawmaking process. Using NLP techniques we seek to identify and categorize articles from bills which were inserted only to make the bill be approved through the Representatives House and consequentially the Senate. We also seek to characterize the general content of laws in Brazil, as in respect of giving rights and setting duties. And to identify the subtle changes in the application of legal principles throughout time. The project is shared with the Linguistics department from UFCG

Python

ReactJS

Node

### AN INTELLIGENT PORTFOLIO MANAGER IN THE SPECULATIVE MARKET

2018 - 2019

Under the supervision of Professor Olga Nikolaevna and with help from Professors Adriano Cardoso and Wagner Meira Jr, and using as basis the existence of permanence in the Cryptocurrency market from previous work. I am developing a machine learning approach using data mining techniques and random forests to build an AI based portfolio manager for the cryptocurrency market and as baseline we use a previous study on the stocks market.

Python

## 📁 PROFESSIONAL EXPERIENCE

Current  
2018

### CTO, OCEANSOFT, Brazil

- > Project development
- > Mobile Applications, Web Apps, APIs, Databases, Data Pipelines
- > , Javascript, Python

.NET

Xamarin

SQL

NOSQL

React Native

ReactJS

Python

Flask

July 2019  
July 2018

### Machine Learning Engineer | Internship, CSU MARKETSYSTEM, Brazil

- > Developing consumer grade predictive models, and also designing software architectures for integrating the generated models into existing solutions

.NET

Python

SQL

Hadoop

PLSql

January 2018  
June 2018

Software Engineer, JR MENDONÇA, Brazil

> Working with diverse projects in a Software Factory in Belo Horizonte.

.NET Xamarin SQL NOSQL React Native ReactJS Python

## SKILLS

**Programming** Microsoft .Net (C#, C++, Javascript, Python)

**Frameworks** .Net Framework, Xamarin, React Native, ReactJS

**Databases** Firebase, Hadoop, Oracle Database, Microsoft SQL Server, MySQL, PostgreSQL

## + LANGUAGES

English ● ● ● ● ●  
Portuguese ● ● ● ● ●  
Japanese ● ● ● ○ ○

## </> PROGRAMMING LANGUAGES

C ● ● ● ● ●  
C++ ● ● ● ● ●  
Python ● ● ● ● ○

## HONORS AND AWARDS

2019 Best Student Award - Computer Science BsC

## TEACHING AND MENTORING

December 2019 Graduate Teaching Assistant, NCSU, Raleigh, NC

August 2019 > CSC230 - C and Software Tools

C Bashscript

December 2021 Graduate Teaching Assistant, NCSU, Raleigh, NC

July 2020 > CSC 510 - Software Engineering

Python .NET Java Javascript Typescript Lua