Gustavo Maronato

Student

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EDUCATION

CS Visiting Undergrad
Harvard University

08/2016 – 12/2016   *Cambridge, MA*

B.E. in Electrical and Electronic Engineering
Unicamp

03/2015 – 07/2020   *Campinas, Brazil*

WORK EXPERIENCE

Student Partner
Microsoft 🔗

11/2017 – Present   *Campinas, Brazil*
Achievements/Tasks

- Selected to represent Latin America at Microsoft Build 2018.
- Organized the biggest Microsoft-funded student hackathon in Brazil with 200 students.

Data Scientist
Cetax 🔗

03/2017 – 03/2018   *Campinas, Brazil*
Big Data and Data Science Consulting Company
Achievements/Tasks

- Hired to create the data science department.
- Interviewed and hired 8 data science professionals.
- Used distributed computing tools like Hadoop and Spark, and data science tools like Keras and MITIE.
- Led a team of 5 interns to create a ML model for Orizon that predicts the risk of strokes in patients with 88% accuracy. Now used in production by them and other health insurance companies.
- Developed by myself a recommender system that recommends credit raises and customer plan changes for CECRED. Used in production today.

COMMITTEES AND VOLUNTEER WORK

Project ALES (Além da Escola) (09/2016 – Present) 🔗
President at ALES, a nonprofit organization that teaches mathematics, programming, theater, and other extracurricular subjects to students in need. 400 students and 50 volunteers as of 2019.

Unicamp Open Data Project (04/2017 – Present) 🔗
Co-Founder and technology director.

Hack the Campus 2017 (08/2017 – 11/2017) 🔗
Organizer and tech lead of Unicamp's first Open Data Hackathon. 200 participants from 6 universities.

SKILLS

`Python` `Hadoop` `Spark`

`Natural Language Processing` `Recommender Systems`

`Spam Detection` `API Creation`

PERSONAL PROJECTS

Unicaronas (08/2018 – Present) 🔗
- API-based carpooling service for university students.
- API built with Django, uses OAuth2 to handle authorization of apps created by users.
- Vue.js client handles 100 trips per week with 5k users from 4 universities.

SpottedBot (03/2017 – Present) 🔗
- API-based SaaS for real-time, automatic moderation of spotted messages sent through Facebook groups.
- Uses natural language processing to learn from and analyze messages.
- The API was implemented using Django and the NLP using sk-learn.
- Currently being reimplemented using Stanford's GloVe model.
- 300 spotteds processed per day from 2 universities in Brazil, 1 group in Canada and 1 in France.

Natural Grade Processing, CS50 Final Project (09/2016 – 11/2016) 🔗
- A tool that is able to predict the grades of college undergrads.
- Uses a custom-made version of the non-negative matrix factorization algorithm to interpret the problem as a recommendation system.
- The modified version of the algorithm performs better than any other variant at this specific task.
- Trained with data from 173 students. Achieved 40% accuracy predicting the exact grade to the decimal point of the students on a 0-10 scale.

SCIENTIFIC INITIATIONS

UNICAMP's Quantum Electronics Department (03/2016 – 07/2016)
Developed a new optical autocorrelation method for ultrafast lasers using custom-shaped mirrors that is able to capture continuous measurements, something not possible with current widely-used methods. Tutored by Dr. Lázaro A. Padilha

LANGUAGES

Portuguese ●●●●●

English ●●●●●