

Bruno Gomes Coelho

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EDUCATION

- University of São Paulo (USP), ICMC** Campus of São Carlos, Brasil
Bachelor's degree in Computer Science; Emphasis in Data Science; GPA: 8.8/10.0 *Fev. 2016 – Dec. 2019 (predicted)*

WORK EXPERIENCE

- University of São Paulo, ICMC** São Carlos, São Paulo
Research Assistant - international scholarship by USAID *Mar 2017 - Present*
 - Classifying:** Evaluated different models (tree classifiers, deep neural networks, SVMs, etc.) to classify different insect species; achieved highest classification accuracy (99%) in our yearly milestone report.
 - Undergraduate thesis:** Analyzing CNNs applied directly to raw audio data for insect classification; Demonstrating the problems with classical classification approaches in the context of sensor generalization
- Getúlio Vargas Foundation (FGV) and Imaflora** São Carlos, São Paulo
Data Scientist *Aug 2019 - Present*
 - Data Processing:** Creating an open source library for processing Brazil's timber exploration
 - Illegal Exploration:** Developing a django/D3 visualization tool that integrates different systems and facilitates the discovery of anomalous data. Integration of 5 years of data across 3 government maintained systems.
- Birdie** São Carlos, São Paulo
Data Science Intern *Aug 2018 - Feb 2019*
 - Data Acquisition:** Acquired more than 1 million e-commerce products through crawlers; Extraction of useful features from unstructured textual data.
 - Machine Learning:** Created hierarchical models for product category classification using transductive ML models; Deployed the models as micro-services and scalable internal libraries for processing 10 million+ daily products.

MAJOR PROJECTS

- Finalist of the Data Science Games 2018** May 2018 - Set 2018
 - Qualification Phase - Kaggle competition:** Analysed the bond market with data provided by BNP Paribas; Predicted customer interest in a bond using diverse data, from customer data to international market information; Final result in the top 30 worldwide from 220 participating universities, guarantying a place in the final.
 - Final - 2 day hackaton:** Used e-commerce data to help predict customer interest in online shopping; Achieved original's company baseline in less than 30 hours.
- Co-founder of DATA - Extracurricular Data Science Group** September 2018 - Present
 - Co-Founder:** Creating and structuring a extracurricular data science group recognised by the university
 - Teaching:** Weekly classes teaching basic Machine Learning concepts (statistical learning theory, K-NN, Linear Regression, SVMs, etc) and frameworks (numpy, pandas, seaborn, scikit-learn) to a class of 30 students.
 - Deep Learning:** Weekly DL study group focused on image recognition and paper discussion. Projects being developed with financing from Santander.
- Data Mining Cup - International ML competition** April 2019 - June 2019
 - Placement:** Placed 19th from 149 Teams from 114 universities in 28 countries - Best team from Brazil.
 - Classifying:** self checkout data as fraudulent or not. Dealing with small training set and a test set 100x bigger.

INVITED EVENTS & SIDE PROJECTS

- Python for Data Science course - Invited teacher:** Teaching fundamentals of Data Science to industry members.
- Khipu:** Latin American Meeting In Artificial Intelligence, invited participant and scholarship receiver.
- 5th Mathematics Solutions Workshop for Industrial Problems:** Invited participant.
- Programming Tutor (12 months):** Taught programming (JavaScript and HTML) to underprivileged communities.
- HTN:** Full sponsorship to Hack The North 2018, Canada's biggest hackaton.

TECHNICAL SKILLS

Languages: C, Java, Python, JavaScript, SQL

Frameworks: SciPy, Scikit-Learn, Pandas, Seaborn, Django

Technologies: BeautifulSoup, Scrapy, Git, Docker, Airflow, Jupyter, PyTorch, Torch, TensorFlow, Dash

AWARDS

- Honorable mention on best article at USP's International Symposium of Undergraduate Research - International Stage. Less than 600 mentions given from over 3200 applicants.
- Recipient of Academic Featured Student (2016), for students with a GPA above 9.0/10.0. Around 7 in each 120 students are awarded each year.
- Silver medal on Elo's Merchant Category Recommendation on Kaggle. Over 4000 teams of 1-4 people took part.