

Sadi Kneipp Neto

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Education

Computer Science BSc, emphasis on Machine Learning

Universidade de São Paulo

July 2015 – December 2019

Experience

Experian Latin America DataLab

Summer Data Science Intern, Whitepaper: <https://goo.gl/88FSBv>

Jan 2017–Apr 2017

- Developed bus traffic analysis models based on months of GPS data from São Paulo's public transportation buses. Applied Machine Learning methods in Python to split the city in regions by bus stop density and detected possible flaws on itinerary planning.
- Evaluated the possibility of position estimation from passive wifi packets with a demo of 4 RPi's as antennas and an ESP8266 as emitter.

Data Science Intern

Aug 2017–June 2018

- Optimized wifi model for multiple antennas and built an autonomous calibration robot on top of a GoPiGo open-source Python-controlled kit. Robot position was estimated with encoders, compass and gyroscope sensors.
- Implemented a parallelized ensemble classifier for low-false-positive hotword spotting by using SnowBoy from kitt.ai and Sphinx.

University College London

Research Intern, Department of Computer Science, Prof David Barber

Oct 2018–Mar 2019

- Work focused on concluding the previous research with auscultation-based diagnosis, funded by USP's Innovation center and Boehringer Ingelheim. Also contributing on a few Reinforcement Learning and Generative image modeling efforts.

Extracurriculars

Summer Course @ Stanford University

SCI 52: Artificial Intelligence: An Introduction to Neural Networks and Deep Learning

Jul 2018 – Aug 2018

- Took SCI 52 with the first prize scholarship from HackathonUSP 2018.1. Course about cutting edge Deep and Reinforcement Learning applications and how AI is modifying society and industry, both inside big companies and startups.

MedIA

Mar 2018 – Today

- Founder of MedIA, a startup dedicated to applying machine learning inside Brazilian hospitals. Currently being accelerated by SAMSUNG Ocean and InovaHC (a startup accelerator from Hospital das Clínicas, the largest public hospital in Latin America).

Undergraduate Research

Professor Renato Vicente, PhD,

Jun 2017–Today

- Implemented and quantified performance of several advanced Machine Learning methods on heart and lung disease detection from stethoscope recordings, such as auto-encoders for anomaly detection and feature generation through wavelet transforms.
- Partnership with Boehringer Ingelheim, one of the world's leading research-driven pharmaceutical companies.

Robotics Team

Member of the ThundeRatz Robotics Team - Polytechnic School of USP

Mar 2015–Mar 2018

- Coordinated the Bot Hockey team (radio controlled robots to play 3v3-5-minute hockey matches) and of Spintronic (the team's smallest combat bot with 150 grams). Managed project members and helped on ARM and AVR C microcontroller programming.
- Earned seven prizes on projects of national and international competitions, including the First Place Bot Hockey at Robogames 2016, one of the largest international robotics competitions in the globe, happening every year at California.

Awards

Hack the North 2018: <https://htn2018-ff451.firebaseio.com/>

Sep 2018

- Awarded a full-ride sponsorship to attend Hack the North 2018, Canada's largest Hackathon. Developed Equilibrate, an embedded camera that detects bad posture habits live with Facebook's bleeding edge Dense Pose neural network running on cloud GPUs.

USP Hackathon 2018.1: <https://github.com/d-nery/BUSPAgora>

Jun 2018

- 1st place, awarded a one-month on-site summer course at Stanford University to be taken in July. Developed a web app integrated with Raspberry Pis to estimate how crowded a bus/bus-stop is based on wifi devices nearby.

Facebook Hack 2018: <https://github.com/tiagoshibata/telegram-voice-to-text>

Apr 2018

- 3rd place. Created a telegram bot with speech-to-text, sentiment analysis and NLP to categorize and summarize audios.

Experiance Jam 4 Hackathon

Oct 2017

- First place, R\$10k prize. Analyzed 70k+ unstructured judicial documents regarding customer actions against Banco Votorantim, one of the biggest banks in Brazil, aiming to predict chance of success.

Summer Camp Scholarship

Brilliant.org <https://brilliant.org/profile/sadi-h4cn8s/>

Jul 2014

- Awarded a scholarship to the Adventures of The Mind Summit by community contributions to the brilliant.org problem-solving website. AoTM is a 2-week program of talks with Nobel and Pulitzer prizes, famous engineers and artists at Oxy College, California.

Physics Olympiads

- Brazil Nationals: Gold (2012, top 20), Silver (2014, top 60) and Bronze (2013, top 120); Lat. Am. Undergrad: Bronze (2018)

Languages: Portuguese (Native), English (Fluent, TOEFL 112/120)

Programming: Python (4 years), C (2 years), R (1 year), Java (1 year)