

IGOR GUSEV

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github.com/iggsev

Higher education & qualifications

University of São Paulo (USP)

Jan. 2015 – Dec. 2019

B.Sc. in Applied Mathematics: Specialization in Control and Automation

transferred from

University of São Paulo (USP)

Jan. 2020 – Jul. 2021

B.Sc. in Applied and Computational Mathematics: Specialization Mechatronics and Mechanical Systems

concluded

Interests

- Machine Learning
- Artificial Intelligence
- Statistics
- Data Analysis

Technical skills

- **Python** (Numpy, Pandas, Scikit-Learn, TensorFlow, Matplotlib, Seaborn, Re, FuzzyWuzzy)
- **R** (dplyr, odbc, DBI, stringr, parallel, Rstan, ggplot2)
- **ETL** (SQL, MariaDB)
- **C**
- **Matlab**
- **Ruby**

Academic research projects

Investigation of the role of neural networks | *Final Project*

2020

- Theoretical investigation
- Implementation of a neural multilayer network
- Analysis of intermediate layers: overfitting, topological deformations and weight attribution.
- Application to periodic series, finding parallels between Neural Networks and Fourier transform.

Experience

WeMind

Set. 2021 – Abr. 2022

- Data cleaning
- Time Series Analysis
- Data clustering
- Training algorithms (Scikit-learn)
- Model construction and Bayesian inference (Rstan)

Ionic Health

Set. 2022 – Feb. 2023

- Customer segmentation (Scikit-learn)
- Mapping medical protocols to international standards (FuzzyWuzzy)
- Helium level forecasting for MRI machines (TensorFlow)

Languages

English: Advanced

Russian: Native

Portuguese: Native