Igor Gusev

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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*

University of São Paulo (USP) **Jul. 2023 – Present**
M.Sc. in Statistics *ongoing*

Interests

- Machine Learning
- Artificial Intelligence
- Statistics
- Data Analysis

Technical skills

- **Python** (Numpy, Pandas, Scikit-Learn, TensorFlow, Matplotlib, Scipy, Keras, Pytorch, Seaborn, Concurrent.futures)
- **R** (dplyr, odbc, DBI, stringr, parallel, Rstan, ggplot2)
- **SQL** (Queries, INSERT, MERGE, JOIN (INNER, LEFT, RIGHT and FULL), GROUP BY, RANK, LEAD, LAG)
- **ETL** (Apache Airflow, Spark, python requests)
- **C** (pointers, lists, stacks, queues, trees, assembly)
- **Matlab** (Simulink, statistical and data analysis)
- **Data Visualization** (Tableau, Power BI, EXCEL)
- **ML APIs** (Auto ML, Hugging Face, OpenAI GPT, Azure)

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