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João P. C. Bertoldo
Research Engineer at MINES ParisTech

Education

Paris-Dauphine – PSL University   *2019 – 2020, Paris, France*

Master IASD – MSc in Artificial Intelligence, Systems, Data.

Subjects: Machine Learning, Deep Learning, Optimization, Natural Language Processing (NLP), Image Analysis.

MINES ParisTech – PSL University   *2017 – 2020, Paris, France*

MSc in Executive Engineering with minor in Data Science.

Subjects: Software Engineering, Databases, Probability, Statistical Modeling, Operations Research.

Engineering School of São Carlos – University of São Paulo   *2013 – 2020, Brazil*

MSc equivalent degree in Mechatronics Engineering.

Obtained a 1-year scholarship for an international exchange at the University of Valenciennes (France).

Teaching assistant (6 mos.): conducted workshops on numerical analysis using MATLAB (github).

Professional Experiences

Research Intern (5 mos.)/Engineer (current) – MINES ParisTech   *2020-2021, Paris, France*

•Works on 3D tomography image segmentation with convolutional neural networks (github).

• *Stack: TensorFlow, Keras, ImageJ, Avizo, Python, Jupyter Lab.*

Research & Development Intern (5 mos.) – Mindsay   *2020, Paris, France*

• Evaluated interpretability methods applied to NLP text classification models maintained by non-experts.

• *Stack: Python, Streamlit, Lime (Ribeiro et al., 2016), Anchor (Ribeiro et al., 2018), SHAP (Lundberg et al., 2017).*

Data Scientist Intern (7 mos.) – Datadog   *2019, New York, USA*

• Analyzed and developed algorithms for time series, tag analysis, and knowledge graph.

• *Stack: Python, Cassandra, GitHub, GitLab, Jupyter Notebook.*

Software Engineer Intern (8 mos.) – Kelda Drilling Controls   *2018, Norway*

• Modeled and designed a time series annotation tool for supervised machine learning.

• *Stack: Python, MongoDB, InfluxDB, JavaScript (React, Redux), Docker, Bash, Git.*

Back-end Developer (3 mos.)/Data Scientist Intern (2 mos.) – Stone Co.   *2017, Rio, Brazil*

• Developed a .NET web Rest API for database access control and lectured about Design Patterns.

• Explored transactional data to predict client churn risk with decision trees-based methods.

• *Stack: PostgreSQL, Jupyter, Pandas, Scikit-Learn, .NET (C#), MongoDB.*

Languages

English: fluent, worked in English speaking companies for 1 year, obtained TOEFL 117/120 (2020).
French: fluent, read subjects in French for 3 years, worked in French organizations for 1 year.
Portuguese: native.

Projects & Interests

Smart coffee machine (4 mos.): developed a web server in .NET (C#) and an Arduino controller (github).

Sunlight simulator (9 mos.): head of the project and developed a 3D motion simulator in Python (github).

Pymdr: implementation of "Mining data records in web pages", Liu et al. in Python (github).

Interests: skydiving, catacombs, podcasts (especially about politics), have been in 18 countries.

February 2021