

Artur Back de Luca

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+55 (48) 988-652-096 | Florianopolis, Brazil

EDUCATION

FEDERAL UNIVERSITY OF SANTA CATARINA

B.SC IN MECHANICAL ENGINEERING
08.2013 - 02.2019 | Florianopolis, Brazil
Academic Performance: 8.66 / 10.00
Class rank: 1st of 57

RHEINISCH-WESTFÄLISCHE TECHNISCHE HOCHSCHULE

B.SC IN MECHANICAL ENGINEERING
04.2017 - 01.2018 | Aachen, Germany

LINKS

Github:// [artur-deluca](#)
LinkedIn:// [arturbackdeluca](#)

SKILLS

TECHNICAL

Programming

Python (Pandas, scikit-learn, NumPy, TensorFlow)
JavaScript (React, D3.js) • VBA • C++
Matlab

Machine Learning

Imbalanced Learning • Time Series
Forecasting • Optimization • Data
scraping • Statistical Inference

LANGUAGES

Portuguese - *Native*
English - *Fluent*
German - *Intermediate*

PUBLICATIONS

- [1] K. Kostyszyn, A. B. de Luca, and R. Schmitt. Gut sortiert zu neuer gröÙe. statistische absicherung in der produktion von einzelteilen und kleinserien. *Qualität und Zuverlässigkeit*, 2017.

EXPERIENCE

NEO EMPRESARIAL | ENGINEERING INTERN

05.2015 - 08.2018 | Florianopolis, Brazil

- Conducted 8 projects of 2 to 3 people, experiencing different management methodologies and leading simultaneous projects and teams
- Implemented LSTM networks and ARIMA models in Python for a ceramic manufacturer to increase demand prediction performance by up to 85%

CERTI FOUNDATION | ENGINEERING SUMMER INTERN

01.2018 - 03.2018 | Florianopolis, Brazil

- Scraped, organized and analyzed customs service data, social media and e-commerce websites to provide insights into market behavior and trajectory using MongoDB, MySQL, and Python

FRAUNHOFER INSTITUTE FOR PRODUCTION TECHNOLOGY | UNDERGRADUTE RESEARCH ASSISTANT

04.2017 - 01.2018 | Aachen, Germany

- Contributed to the development of a Statistical Process Control technique applied in Industry 4.0 contexts utilizing Statistical Inference
- Implemented a web application to analyse manufacturing data using Django and ReactJS

WHIRLPOOL S.A. – EMBRACO | ENGINEERING SUMMER INTERN

02.2016 - 03.2016 | Joinville, Brazil

- Developed a supplier performance and risk evaluation system, deployed in five different countries reducing the process duration by approximately 65%

RESEARCH

WZL - WERKZEUGMASCHINENLABOR | BACHELOR THESIS

10.2017 - 01.2018 | Aachen, Germany

- The project characterized a combinatorial optimization problem placed in quality assurance, compared several techniques and employed a Particle Swarm meta-heuristic variation in Python. Advised by **Prof. Robert Schmitt** the Thesis received the maximum grade

PERSONAL PROJECTS

ARTIFICIAL INTELLIGENCE STUDY GROUP - UFSC | Co-FOUNDER

09.2018 - Present | Florianopolis, Brazil

Group dedicated to share and study concepts on Data Science and Machine Learning through lessons and workshops

EINSTEIN VESTIBULARES | VOLUNTARY DATA ANALYST

07.2018 - Present | Florianopolis, Brazil

An NGO that teach students who can't afford preparation courses for the entering exams of federal universities

- Implemented a model to identify potential dropouts and their inducing factors, generating faster and more assertive actions to help students to keep on studying