

# PEDRO GONÇALO BRAVO MENDES

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## PROFESSIONAL QUALIFICATIONS

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### Researcher

#### Instituto Superior Técnico/INESC-ID

📅 2020-Ongoing

📍 Lisbon (Portugal)

Project CAMELOT (autonomiC pLatform for MachinE Learning using anOnymized data): Development of a Machine Learning (ML) platform in order to improve the efficiency of Artificial Intelligence (AI) platforms to maximize the performance of those ensuring that time and cost constraints of the training and inference phase of ML models are not violated.

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### Junior Researcher

#### INESC-ID

📅 2019

📍 Lisbon (Portugal)

Project SATURN: Development of two systems to optimize the allocation of cloud resources in order to minimize the execution cost and maximize the performance through the use of subsampling techniques to reduce the amount of data over which machine learning models are trained, as a means to enhance the efficiency of model training through the reduction of the training cost by adjusting the subsampling rate of the input dataset to trade-off, in a controlled way, the accuracy of the resulting models and the computational demand (and, hence, the cost) of the training process.

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## EDUCATION

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### Doctor of Philosophy Degree (PhD) in Computer Science and Engineering

#### Instituto Superior Técnico

📅 2020 - Ongoing

📍 Lisbon (Portugal)

- Major Specialization Area: Distributed Systems, Cloud Computing and Virtualization, Machine Learning, Optimization.
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### Integrated Master Degree (MSc) in Electrical and Computer Engineering

#### Instituto Superior Técnico

📅 2017 - 2019

📍 Lisbon (Portugal)

- Major Specialization Area: Computer Engineering (Distributed Systems, Computer Networks, Internet and Security).
  - Secondary Specialization Area: Systems, Decision and Control (Machine Learning, Optimization and Algorithms, Autonomous Systems and Robotics).
  - Final Grade of seventeen values;
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## Exchange Program Erasmus

### Chalmers University of Technology

📅 2017 - 2018

📍 Gothenburg (Sweden)

- Main Areas of Study: Computer Networks and Communications, Distributed Systems, Computer Architecture, Computer Security, Robotics.

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## Bachelor's Degree in Electrical and Computer Engineering

### Instituto Superior Técnico

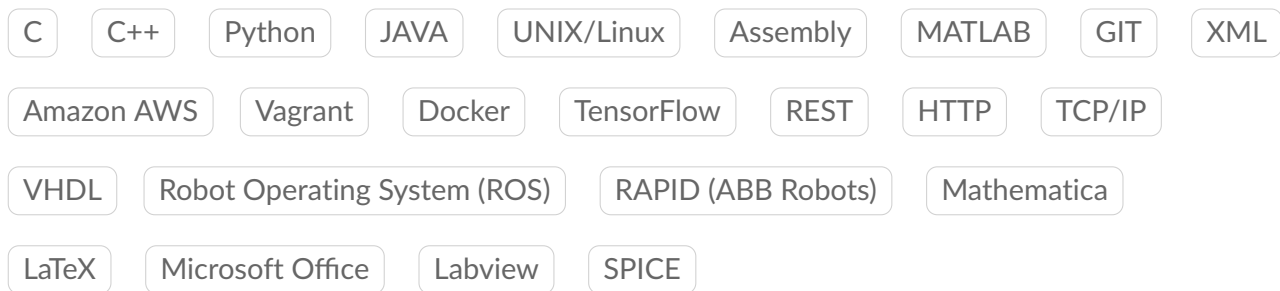
📅 2014 - 2017

📍 Lisbon (Portugal)

- Final Grade of sixteen values;
- Main Areas of Study:
  - Calculus and Algebra;
  - Digital Systems and Computer Architecture and Design;
  - Programming, Algorithms and Data Structures and Operating Systems;
  - Electromagnetism and Optics, Theoretical Foundations of Electrical Engineering;
  - Signals and Systems and Automatic Control;
  - Fundamentals of Electrical Power Systems;
  - Electronics and Fundamentals of Telecommunications.

## PROGRAMMING AND COMPUTER SKILLS

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## PUBLICATIONS

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### 📖 Masters Dissertation

- Mendes, Pedro (2019). *Leveraging Subsampling Techniques to Optimize Machine Learning Jobs in the Cloud*. Lisbon, Portugal: Instituto Superior Técnico.

### 👥 Articles

- Mendes, Pedro, Casimiro, Maria, Romano, Paolo, and Garlan, David (2020). "TrimTuner: Efficient Optimization of Machine Learning Jobs in the Cloud via Sub-Sampling". In: *2020 IEEE 28th International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)*. Nice, France.

## CERTIFICATIONS

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Diploma of Academic Excellence level A

**Instituto Superior Técnico**

📅 2016/2017

📍 Lisbon (Portugal)

Diploma of Academic Merit level B

**Instituto Superior Técnico**

📅 2014/2015, 2015/16

📍 Lisbon (Portugal)

International English Language Testing System (IELTS) - Overall Score 7.5, CEFR Level C1

**IELTS**

📅 2020

📍 Lisbon (Portugal)

Cambridge ESOL Entry Level Certificate in ESOL International (Entry 3) – Council of Europe Level B2

**Cambridge School**

📅 2005-2014

📍 Seia (Portugal)

Certificate in German at level A2.1 according the Guidelines of the Common European Framework of Reference for Language (CEFR)

**Language Craft**

📅 2015 - 2016

📍 Lisbon (Portugal)

## LANGUAGES

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- Portuguese: Native speaker
- English: Proficient
- Spanish: Proficient
- German: Beginner

## VOLUNTEER

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Web Summit

**Technology Conference**

📅 2016

📍 Lisbon (Portugal)