



# Sara Malvar

I'm an engineer with a master and a PhD degree in engineering. I'm passionate about education and science and I currently hold a postdoctoral fellow position at University of São Paulo with the support of the Shell Research Center for Gas Innovation. My main research theme is to find solutions for a more sustainable world using machine learning. Currently, I also work as a mentor, reviewer and instructor at Udacity, Alura and Awari School.

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🐙 github.com/smalvar

## INDUSTRY EXPERIENCE

### Field Technical Specialist - Data and Storage

IBM Brasil

2011 – 2014

Brasília

### Electrical Engineer

VERT TI Solutions

2014 – 2014

Brasília

### Assistant Professor

University of Brasilia

2015 – 2016

Brasília

### Mentor and Reviewer

Udacity

2018 – Present

Nanodegrees

- Data Science Foundations I and II
- Data Scientist
- AI Foundations
- Data Analysis Foundations
- Machine Learning Engineer
- Data Science for Business
- Deep Learning Nanodegree
- Data Visualization with Tableau
- AI for Healthcare

### Machine learning instructor

Alura

2019 – Present

Courses

- Predictive models in data: fraud detection
- Data clustering: customer segmentation

### Mentor

Awari School

2020 – Present

Courses

- Machine learning and Data science courses

## INTERNATIONAL RESEARCH EXPERIENCE

Tokyo University (2018)

Research internship

University of Pennsylvania (2019)

Research internship

## SKILLS

Python

Tableau

Alteryx

Machine Learning

NumPy

SciPy

Jupyter Notebook

Keras

TensorFlow

Deep learning

## EDUCATION

### Postdoctoral Fellow

University of Sao Paulo

2019 – Present

Theme

- Machine learning for seismic inversion
- Machine learning for PHB producing bacterial growth optimization

### PhD Fluid and Energy Engineering

University of Pennsylvania / Univ. of Sao Paulo

2016 – 2019

### MSc Mechanical Sciences

University of Brasilia

2014 – 2015

### B.A. Electrical Engineering

University of Brasilia

2009 – 2014

## AWARDS

Best Undergraduation Project (2014)

EMBRAER / ABCM - Brazilian Association of Mechanical Sciences

Best Scientific Initiation Project (2014)

University of Brasilia

Best Master Theses (Honorable Mention) (2016)

EMBRAER / ABCM - Brazilian Association of Mechanical Sciences

FAMELAB Finalist - Scientific Communication Award (2017)

British Council

Science and Engineering Exchange Program with Latin America - SEELA (2018)

University of Tokyo