DIOGO DUTRA

✉ diogodutra@gmail.com

📱 +1 437 221 1116

in linkedin.com/in/diogodutra

👤 diogodutra.github.io

SUMMARY

Data Scientist with +10 years of international experience in Defense and Aerospace industries.

I have an entrepreneurial vein, lots of programming skills and a passion for product development.

EDUCATION

Deep Learning	2019
NanoDegree	Udacity
Machine Learning	2018
NanoDegree	Udacity
Data Science	2017
Course	edX
MBA	2011-2012
Entrepreneurship	FGV
Master	2006-2007
Aeronautics Engineering	ITA
Bachelor	2001-2005
Mechanics Engineering	IME

SKILLS

PyTorch, Scikit-learn, CNN, RNN, Python, C++, JIRA, Scrum, Git, Matlab, Simulink.

English, French, Portuguese.

KEY ACCOMPLISHMENTS

✓ Created a Neural Network to **detect covert weapons** with radar

✓ Created a **quadcopter autopilot** using Reinforcement Learning

✓ **Increased missile flight lifespan** from 1 to 10 minutes by applying data fusion of INS, GPS and baroaltimeter with Kalman Filter

✓ **Predicted flight delays** with Deep Learning within margin of 15 min

✓ **Reduced 30% of $5M stock** value of spare parts by applying data analysis on MRO warehouse ERP database

WORK EXPERIENCE

LEAD DATA SCIENTIST
Canada

PatriotOne
Jul 2019 – on-going

- Applied Convolution Neural Network (PyTorch) and Digital Signal Processing on radar signals. Development of an alert system capable of covertly screening moving individuals for on-body concealed weapons

- Got promoted in 3-months to mentor and lead a technical team; reported directly to VP of Engineering

SENIOR CONSULTANT
Brazil, Portugal

Natura, Altran
Apr 2017 – Jul 2019

- Embedded C++ code for automotive cluster: BMW and Continental

- Proofs-of-Concept for Industry 4.0 including Additive Manufacturing (3D printing), Augmented Reality and Artificial Intelligence

CTO
Brazil

goEPIK
Nov 2016 – Jun 2017

- Co-founded the most attractive Brazilian startup in 2017 during my part-time by offering Augmented Reality app for maintenance

SYSTEMS ENGINEER
France

DCNS, ICN
Apr 2013 – Mar 2017

- Commissioning of submarine combat system (IVVQ, STW and FAT)

PROJECT AND COMMERCIAL MANAGER
Brazil

Mectron
Nov 2011 – Mar 2013

- $200K contract prospected and managed, ending with profit

AEROSPACE ENGINEER
Brazil, South Africa

Embraer, Denel
Sep 2007 – Nov 2011

- Guidance, Control, Navigation for missiles; simulation of jet fighter