DIOGO DUTRA

- +1 437 221 1116
- Toronto, Canada. M6K 3R9
- 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 <u>edX</u>

MBA 2011-2012 Entrepreneurship FGV

Master 2006-2007 Aeronautics Engineering <u>ITA</u>

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

Brazil

DCNS, ICN

Apr 2013 – Mar 2017

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

PROJECT AND COMMERCIAL MANAGER

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