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| DIOGO **DUTRA** | diogodutra@gmail.com +1 437-221-1116[linkedin.com/in/diogodutra](https://www.linkedin.com/in/diogodutra) [diogodutra.github.io](https://diogodutra.github.io/) |

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ EDUCATION \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Nano Degree “AI Product Manager” [Udacity](https://br.udacity.com/course/machine-learning-engineer-nanodegree--nd009) | 2020  |
| Nano Degree “Deep Learning” [Udacity](https://br.udacity.com/course/machine-learning-engineer-nanodegree--nd009) | 2019  |
| Nano Degree “Machine Learning Engineer” [Udacity](https://br.udacity.com/course/machine-learning-engineer-nanodegree--nd009)  | 2018  |
| COURSE “Data Science Essentials” [edX](https://courses.edx.org/certificates/3cc2ddc1e6194487804672b56d06dfa5)  | 2017  |
| MBAin Entrepreneurship[Fundação Getúlio Vargas](https://portal.fgv.br/)  | 2011-2012  |
| MASTERof Aeronautical Engineering[Instituto Tecnológico da Aeronáutica](http://www.ita.br/) |  2006-2007  |
| BACHELORof Mechanical Engineering[Instituto Militar de Engenharia](http://www.ime.eb.br/) | 2001-2005  |

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ WORK EXPERIENCE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MACHINE LEARNING DEVELOPER at [Ford](https://www.ford.ca/) *May 2021 – present Canada*

* Research and Development of future Artificial Intelligence applications for the next generation of autonomous vehicles infotainment system at Ford's R&D laboratory.
* The new applications are conceived in a series of proof-of-concepts for the self-driving car including different areas such as Deep Learning, Computer Vision, user recommendation, embedded systems and connectivity with other devices.
* Using Linux, Office365, Eclipse, Blackberry QNX, CMake, C++, Android Auto, AUTOSAR, Python, OpenCV, TensorFlow, Git, GCP.

LEAD DATA SCIENTIST, MACHINE LEARNING at [PatriotOne](https://patriot1tech.com/)  *Jul 2019 – Jan 2021 Canada*

* Applied Convolutional Neural Networks and Digital Signal Processing to develop a radar and magnetic system that detects concealed weapons on the body. Used PyTorch, NumPy, Pandas and Scikit-learn, Jupyter Notebook, Matplotlib, Seaborn, Bokeh, JIRA, BitBucket, Docker, AWS S3.
* Co-created with my team a customized Agile to speed up Research and Development of state-of-the-art engineering.
* Managed and mentored up to 3 technical members thanks to a promotion after 3-months.

## DATA SCIENTIST at Various Clients as part-time Freelancer *Jan 2018 – Jul 2019 Remote*

* Increased small local retailer monthly sales by 39%. Customer segmentation (Unsupervised Learning) by purchase pattern drove new in-store promotions strategies, automatically announced by the cashier based on the groceries that was just processed (before payment).
* Increased online revenue by 22% with recommender engine for cross-selling and up-selling considering specific customer segments (i.e.: regions of the country, age bracket, previous purchases).

## SENIOR CONSULTANT ENGINEER at [Altran](https://www.altran.com/pt/en/), [Natura](http://www.natura.com.br/) *Mar 2017 – Jul 2019 Brazil, Portugal*

* Embedded C++ code on automotive cluster, with Visual Studio, BitBucket, Confluence, Scrum, JIRA, Google Unit Test, Python, Robot Framework.
* Implemented a series of PoCs for Industry 4.0 including 3D printer, Augmented Reality and Machine Learning for predictive maintenance. Managed 3 distinct teams adding up 30 members. Used Office 365, Python, Azure, Power BI and SharePoint list.

CTO at [GoEpik](http://goepik.com.br/)  *Nov 2016 – Jun 2017 Brazil*

Co-founded startup that delivered an Augmented Reality novel for maintenance to Natura and Renault with C#, Unity 3D and Vuforia for mobile. [GoEpik was the most attractive Brazilian startup by 2017](https://link.estadao.com.br/noticias/inovacao%2Cgoepik-foi-eleita-a-startup-mais-atraente-para-empresas-em-2017%2C70001951868), accelerated by Google (Startup Farm) and Plug and Play, invitation to base in Silicon Valley.

ENGINEERat [ICN,](http://www.icnavais.com/) [DCNS](http://www.dcns.fr/), [Denel](http://www.deneldynamics.co.za/)[, Embraer](http://embraer.com/) *Aug 2007 – Apr 2017 Brazil, France, South Africa*

Various Aerospace and Defence projects (submarine, missile, jet fighter) as project manager, system and aerospace engineer. Used Matlab, Digital Signal Processing, embedded algorithm in ARM processor using C language and managed requirements with DOORS. For more details, visit my LinkedIn profile.

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SKILLS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| * English, French and Portuguese
* C/C++, SQL
 | * AWS, GCP, Azure, Power BI
* Git, Flask, Heroku, Docker
 | * Python, SciPy, Scikit-learn, Pandas
* Keras, Pytorch, Fast.AI
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