MARCEL CASTRO

Solutions Architect / Data Scientist

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🌐 marcelcastrobr.github.io/notebooks/ in marcelcastrobr ○ marcelcastrobr
☺ huggingface.co/marcelcastrobr

EXPERIENCE

Senior Solutions Architect
Amazon Web Services

📅 June 2022 – Ongoing 📍 Oslo/Hybrid, Norway

- Run technical workshops and advise customers on architectural decisions covering machine learning, container and serverless solutions.
- Educate customers on best practices to ensure their solutions are designed for successful deployment in the cloud.
- Aspiring member of AWS machine learning / artificial intelligence technical field community.

Senior Data Scientist
TechnipFMC

📅 February 2019 – May 2022 📍 Kongsberg, Norway

- Responsible for data contextualization for the Service Visualization Tool application covering 5 regions, 9 clients, hundred of users and 5 millions data points.
- Develop and deploy machine learning models using Data Robot and AWS Sagemaker platforms following MLOps principles.
- Built TechnipFMC Timeseries platform from PoC towards production for customer fields (10000 tags/sec per field) using AWS Timestream, IoT Core and lambda.
- Develop data pipelines using CICD principles to guarantee data quality, version control and scalability (i.e. github actions, dbt, SQL).
- Contribute to oil&gas digitalization initiatives in Norwegian Continental Shelf (i.e. READI JIP, Konkraft Digital Design Basis, DNV digital twins qualification).

Specialist Technical Safety and Reliability Engineer
TechnipFMC

📅 Mar 2012 – Jan 2019 📍 Kongsberg & Lysaker, Norway

- Reliability, availability, maintainability statistical analysis in projects and products, including probability of failure on demand and mean time between failure.
- Lead responsible to establish and follow-up requirements, architecture design and test related to system and product development.
- Mentor of two graduate engineers.

Research Assistant / Ph.D. Student
Karlstad University

📅 2006 – 2012 📍 Karlstad, Sweden

Network Engineer
CPqD

📅 2002 – 2006 📍 Campinas, Brazil

SKILLS

tensorflow keras numpy pandas
jupyter lab plotly, dash aws sagemaker
datarobot huggingface

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sql pyspark redshift snowflake
timestream

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kubernetes docker python bash
aws cdk cicd , dbt github actions
jira, confluence, slack linux

EDUCATION

Ph.D. in Computer Science
Karlstad University, Sweden

📅 May 2006 – Dec 2011

M.S. in Electrical Engineering
State University of Campinas, Brazil

📅 Jan 2001 – Dec 2004

B.S. in Electrical Engineering
Federal University of Goiás, Brazil

📅 Jan 1996 – Dec 20

CERTIFICATIONS

aws **AWS Certified Machine Learning - Specialty**
AWS

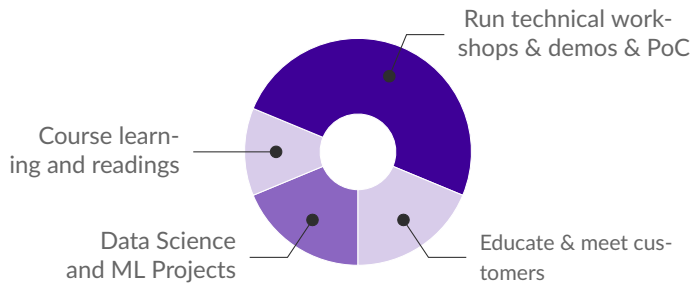aws **AWS Certified Developer - Associate**
AWS

🏆 **ML Eng. for Production (MLOps)**
DeepLearning.AI Specialization

🏆 **TensorFlow: Advanced Techniques**
DeepLearning.AI Specialization

🏆 **TensorFlow Developer Professional**
DeepLearning.AI Specialization

aws **AWS Certified Solution Architect - Associate**
AWS

A DAY OF MY LIFE

- Run technical workshops & demos & PoC
- Educate & meet customers
- Data Science and ML Projects
- Course learning and readings

PUBLICATIONS

📄 Google Scholar

PATENTS

🏅 **HIPPS Patent**
High-Integrity Pressure Protection System and Associated Method - No.: 342625

🎤 **VoIP Patent**
Architecture and Topology of Voice and Data Network for Rural Areas, 2005. No.: PI 0506280-2 A

INTERESTS

📓 **Coursera Beta Tester**

🤖 **Home automation with raspberry pi and arduino**

TEACHING

Data Science course
Invited Speaker, University South-Eastern Norway, 2023.

Subsea Production Technical Safety
Teaching System Engineering Master course with Kristin Falk, Høgskolen i Sørøst-Norge (HSN), 2015 - 2017.

Distributed Systems and Application
Teaching Assistant for Karl-Johan Grinnemo, Karlstad University, Fall 2010.

Programming Techniques
Teaching and Lab Assistant for Reine Lundin, Karlstad University, Fall 2010.

Computer Networking II
Lab Assistant for Andreas Kassler, Karlstad University, Spring 2010.

Operating Systems
Lab Assistant for Katarina Asplund, Karlstad University, Fall 2009.

Software Development Design
Lab Assistant for Kerstin Andersson, Karlstad University, Spring 2008/2009.

Topics in Computer Networking
Teaching Assistant for Anna Brunström, Karlstad University, Spring 2008/2009