

Contact

saraiva.ufc@gmail.com

www.linkedin.com/in/saraivaufc
(LinkedIn)
www.saraiva.dev (Portfolio)

Top Skills

Python
Django
Artificial Intelligence (AI)

Languages

Português (Native or Bilingual)
English (Professional Working)

Certifications

Scrum Foundation Professional
Certificate (SFPC)
Verified International Academic
Qualifications
DevOps Essentials Professional
Certificate (DEPC)

Publications

Automatic Mapping of Center Pivot
Irrigation Systems from Satellite
Images Using Deep Learning
Construção de Mosaicos Temporais
Normalizados de Imagens Planet
Reconstructing Three Decades of
Land Use and Land Cover Changes
in Brazilian Biomes with Landsat
Archive and Earth Engine

Marciano Saraiva

Senior Software Developer | Data Science | Machine Learning |
Python | Django | Geoprocessing | Remote Sensing
Florianópolis, Santa Catarina, Brazil

Summary

As a Senior Software Developer at Brain Agriculture, my focus lies in utilizing data analytics and artificial intelligence to innovate within the agricultural sector. With over 7 years of experience, I am proficient in Python, Django, Keras, TensorFlow, and Scikit-Learn. My expertise extends to data analysis, including satellite image processing and the application of AI for predictive modeling and optimization in land use and crop health assessment. In addition to my analytics and AI capabilities, I have a strong foundation in software development, particularly with Python and the Django framework. This has enabled me to build robust, scalable web applications that support complex data processing and visualization needs. Visit my portfolio at www.saraiva.dev

- Languages: Python, Javascript, HTML, CSS
- Frameworks: Django, Flask, Bootstrap, jQuery, Angular
- Databases: Postgres (+Postgis), Mysql, Mongo, and Redis;
- Geoprocessing and Data Science: TensorFlow, Keras, Scikit-learn, GDAL, Google Earth Engine;
- Task Queue: Celery, RabbitMQ, AWS SQS
- Build tools: Docker, Jenkins, git (<https://github.com/saraivaufc>)

Experience

Brain Agriculture

2 years 6 months

Solutions Consultant

July 2022 - Present (1 year 9 months)

Indaiatuba, São Paulo, Brazil

- Land use and land cover mapping using machine learning tools;
- Processing of satellite images;
- Development of geographic information systems;
- Leads the development of Remote sensing products.

Senior Software Development Analyst

October 2021 - June 2022 (9 months)

Indaiatuba, São Paulo, Brazil

- Land use and land cover mapping using machine learning tools;
- Processing of satellite images;
- Development of geographic information systems.

Agrosatellite Applied Geotechnology

4 years 2 months

Senior Software Development Analyst

October 2019 - September 2021 (2 years)

Florianópolis e Região, Brasil

- Development of geographic information systems
- Land Use and Land Cover Mapping using Machine Learning
- Satellite image processing
- Analysis and exploration of geospatial data

Mid-level Software Development Analyst

May 2018 - September 2019 (1 year 5 months)

Florianópolis, Santa Catarina, Brazil

Trainee Software Development Analyst

August 2017 - April 2018 (9 months)

Florianópolis, Santa Catarina, Brazil

Federal University of Ceará

Software Development Intern

January 2016 - December 2016 (1 year)

Quixadá e Região, Brasil

Education

Pontifical Catholic University of Minas Gerais

Postgraduate (Lato Sensu), Artificial Intelligence and Machine Learning · (2020 - 2021)

Pontifical Catholic University of Minas Gerais

Postgraduate (Lato Sensu), Data Science and Big Data · (2019 - 2020)

Federal University of Ceará

Bachelor degree, Information Systems · (2013 - 2016)