Yohan Alexander Dantas de França

Computer Science Student

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yohanalexander

Skills

Overview

Tools

Python

C • C++

GIT

Linux

LaTeX

SQL

Haskell

Languages

English - Advanced

About me

• I am a self-taught data science student, currently majoring in Computer Science at the Federal University of Sergipe.

• In academic life, researches at the level of Scientific Initiation in the High Energy Astrophysics Research Group, ASTRalE, in the Physics Department of the Federal University of Sergipe.

• Founded in 2018, the group has its activities based on space technology and astronomical observations conducted by satellites from American, European and Japanese space agencies.

• Passionate about the Python ecosystem, open source and astronomical data, dedicates his time to the study of methods to analyse and extract information from data via computational tools, such as machine learning and deep learning.

Education

2016 - 2017 Discontinued — **Bachelor at Eletronic Engineering** — Federal University of Sergipe

- Development of technical skills in electronic prototyping;

2018 - 2022 Currently — **Bachelor at Computer Science** — Federal University of Sergipe

- Development of technical skills in design and analysis of algorithms;
- Contribution to the academic community through research at the level of scientific initiation;
- Development of skills in interdisciplinary thinking, through participation in the High Energy Astrophysics Research Group.

Research

2019 - 2020 Currently — **CNPq Scientific Initiation Scholarship** — Lattes

Implementation in Python language and use of the Z2n periodogram

- The detection and characterization of periodic signals are crucial steps in the study of astrophysical objects of innumerable classes. Such steps are based on mathematical methods applied via computational tools to astronomical data. This project aims to initiate the student in scientific activities with the development of skills in mathematics and programming with practical application in the investigation of astrophysical pulsars. The central idea of the project is to implement in Python a mathematical method based on Fourier analyzes that is appropriate and widely used in Astrophysics to characterize oscillations with short periods (<minutes): the Z2n periodogram.

Courses

- **Databases Complete Course** — Udemy
- **Python for Android, iOS, Win, Linux e Mac** — Udemy
- **Python for Data Science e Machine Learning** — Udemy
- **Web Programming with Django Framework** — Udemy
- **TensorFlow: Machine Learning e Deep Learning with Python** — Udemy
- **Artificial Intelligence: Python Text Searches** — Udemy

Honours

Medals and honorable mentions in several knowledge olympics, on multidisciplinary topics, such as physics, computer science, chemistry and astronomy.