



ARTUR PEDRO MARTINS NETO

Address: Belém, Pará, Brazil
Phone: +55 91 984679009
Email: arturpedromartins@gmail.com
Website: www.artpedro.github.io/homepage
Linkedin: www.linkedin.com/in/artpedro/

SUMMARY

Project-oriented, versatile learner seeking a position where I can apply my knowledge of data science and artificial intelligence to develop innovative solutions to complex problems. Passionate about science and computation, with interests in a variety of natural and exact sciences subjects. Highly motivated, with hands-on experience in Python, PyTorch and SQL through academic and personal projects. I'm looking forward to work with large datasets, develop models, and utilize data visualization tools to effectively communicate insights and solve problems. I'm always willing to learn new concepts and broaden my skill set. I believe artificial intelligence is reshaping the world around us, and I'm very excited to be part of it.

SKILLS AND CERTIFICATIONS

- **Technical Skills:** Python, MATLAB, SQL, PyTorch, Scikit-learn, Pandas, NumPy, Seaborn and Matplotlib.
- **Languages:** English (fluency), Portuguese (native).
- **Main Certifications:**
 - Machine Learning Specialization (STANFORD ONLINE)
 - Scrum Fundamentals Certified (SFC)
 - Fundamentals of Deep Learning (NVIDIA)
- **Awards:**
 - First Place in Hackathon Mining Hub (2024)

EDUCATION

Bachelor of Biotechnology **Oct 2021 - Present**

Federal University of Pará - UFPA

- Coursework in genetics, bioinformatics, and computational biology, providing a solid foundation in scientific research methodologies.
- Strong analytical and problem-solving skills developed through laboratory experiments and data analysis projects.
- Participated in biotechnology entrepreneurship courses and seminars, learning how to turn scientific innovative ideas into marketable products/services.

SCIENTIFIC EXPERIENCE

Database development for pathogen identification and metagenomic analysis **April 2023 - Dez 2023**

Laboratory of Biological Engineering (PCT Guamá / UFPA)

- Local MongoDB database development on Linux systems.
- Data extraction and retrieving using POO-based Python Scripts.
- Genomic metadata manipulation and visualization using Pandas and Seaborn.

Enzymatic bioreactor mathematical modelling for Amoxicillin synthesis **May 2024 - Sept 2024**

Process Engineering Group of Amazonia (GEPAM / UFPA)

- Parametric optimization using Monte-Carlo Markov-Chain methods and Genetic Algorithms.
- Solving systems of ordinary differential equations using MATLAB and Python.

Data-driven discovery of governing equations of Dynamical Systems **Dez 2023 - Present**

Laboratory of Biological Simulation (SIMBIC / UFPA)

- Understanding of Digital Signal Processing and Deep Learning applied to neural time-series.
- Data-driven techniques for Dynamical Systems modeling.