Pierre PHU

Junior Data Scientist

pierre-phu.github.io
linkedin.com/in/pierrephu/

pierre.phu.pro@gmail.com
+33 6 09 71 42 49

EDUCATION

ISAE-Supaero
General Engineering curriculum
Sep. 2019 – Dec. 2023
Toulouse, France
- Major: Data Science (Machine/Deep/Reinforcement learning, supervised and unsupervised)
- Minors: Space Systems and Autonomy, Planetology, Energy Transition, Business Creation
- Core courses: Applied Mathematics, Computer Science, Signal Processing, Space Mechanics, Automation

National University of Singapore – NUS
Exchange Program - Master's Level (M2) Lectures
Jan. 2022 – May 2022
Singapore, Singapore
- Modules: Neural Networks, Robot Perception, Fuzzy/Neural Systems for Intelligent Robotics
- Associative: Participation in climbing and dodgeball competitions (third place) and cultural events

Lycée Carnot
Higher school preparatory classes
Sep. 2017 – Jul. 2019
Dijon, France
- Core courses: Mathematics (Calculus, Algebra, Statistics) , Physics (Mechanics, Thermodynamics, Electronics)
- Project: Study of the pressure drop in a pipe, optimise pipe presure using genetic algorithms.

EXPERIENCE

Okomera
Data scientist intern - Deep learning
May 2023 – Nov. 2023
Paris, France
- Performed semantic segmentation of cancer cells images for Precision Cancer Medecine.
- Proposed and implemented annotation workflow and add pre-annotation pipeline using U-NET model.
- Improved the prediction score (DICE) by 40% while reduced the training cost by 30%.

LAAS-CNRS
Project manager - Reinforcement learning
Sept. 2022 – Feb. 2023
Toulouse, France
- Implemented a PPO control for operating a bipedal robot in rough terrain simulation.
- Organised tasks for a team of 6 people, management of deliverables and deadlines from the client.

SharkGuard
Project initiator - Deep learning
May 2022 – Jul. 2022
Sydney, Australia
- Proposed an algorithm to detect sharks from aerial view using drones. [article link]
- Captured images and videos of sharks by drone, totaling 120 hours of flight, and created a licensed dataset.
- Manually annotated 1000 images and trained a Yolov5 algorithm for real-time inference.

Innov'ATM
Data scientist intern - Machine learning
Mar. 2021 – Jul. 2021
Cugnaux, France
- Predicted aircraft delays at departure of CDG Airport using machine learning algorithms.
- Performed Data processing, enhanced the dataset (with meteo) and trained multiple Random Forest models.
- Reduced prediction error by 50% (from 15 to 7 minutes) and integrated the pipeline to the company product.

SKILLS

OS: Linux, Windows
Programming Languages: Python (Pytorch, TensorFlow, Keras, OpenCV, Pandas, Scikit-learn), Java, C, Matlab
Database management: MongoDB, PostgreSQL, AWS S3
Softwares: GitHub, Docker, OVHcloud, Apache Airflow

Languages: French (native), English (fluent C1), Spanish (professional B2/C1), Chinese (beginner A2)
Soft Skills: Curious, Autonomous, Rigorous

EXTRACURRICULAR

Surf: Led a 50-member school surf club as President and reached the semi-finals in the ASC contest.

Alpinism: Practice of cliff climb (V5/V6) and conquered high-altitude peaks including Tunguragua (5023m), Chimborazo (6263m), and Chachani (6057m).

Handicraft: Proficient in woodworking, surfboard shaping, and mechanical servicing, showcasing creativity, craftsmanship, and practical skills.