Pierre PHU

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Education

ISAE-Supaero   Sep. 2019 – Dec. 2023
General Engineering curriculum   *Toulouse, France*

- Major: Data Science (Machine/Deep/Reinforcement learning)
- Minors: Space Systems and Autonomy, Planetology, Energy Transition
- Core courses: Applied Mathematics, Computer Science, Signal Processing, Space Mechanics, Automation

National University of Singapore – NUS   Jan. 2022 – May 2022
Exchange Program - Master's Level (M2) Lectures   *Singapore, Singapore*

- Modules: Neural Networks, Robot Perception, Fuzzy/Neural Systems for Intelligent Robotics
- Associative: Participation in climbing and dodgeball competitions

Lycée Carnot   Sep. 2017 – Jul. 2019
Higher school preparatory classes   *Dijon, France*

- Core courses: Mathematics, Physics, Engineering science, Informatics
- Project: Study of the pressure drop in a pipe

Experience

Okomera   May 2023 – Nov. 2023
Data scientist intern - Deep learning   *Paris, France*

- Performed semantic segmentation of cancer cells images.
- Implemented annotation workflow and add pre-annotation pipeline using U-NET model.
- Improved the prediction score by 35% while reduced the training cost by 30%.

SharkGuard   May 2022 – Jul. 2022
Personal project - Deep learning   *Sydney, Australia*

- Created a shark monitoring project. [article link]
- Captured images and videos of sharks by drone, totaling 120 hours of flight.
- Manually annotated 1000 images and trained a Yolov5 algorithm.

Innov'ATM   Mar. 2021 – Jul. 2021
Data scientist intern - Machine learning   *Cugnaux, France*

- Predicted aircraft delays at departure of CDG Airport.
- Performed Data processing and trained multiple Random Forest models.
- Reduced prediction error by 50% 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 quarter-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.