CLEMENT WANG

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 clementw168 — in clem-wang — clem-wang

EDUCATION

MSc in Computer Science, CentraleSupélec — University of Paris-Saclay   Sept 2020 – Dec 2024
Relevant coursework: machine learning, statistics, parallel calculus, algorithm & complexity, signal processing.

MSc in Applied Maths for Machine Learning — MVA, ENS Paris-Saclay   Sept 2023 – Dec 2024

Preparatory Courses - MPSI/MP*, Lycée Henri IV   Sept 2018 – Jul 2020

EXPERIENCE

Computer vision R&D Intern   Feb 2023 – Jul 2023
Stryker   *Freiburg-im-Breisgau, Germany*

- Achieving 3.0mm error on 3D position tracking of surgery instruments. Key points detection with High-resolution network and triangulation with different timestamps. Condensing the process from 2 minutes to 10 seconds.
- Centroids detection on NIR images with subpixel precision. Reaching 3e-3 pixel error with Mobilenet modules.

Co-Founder & MLOps Engineer   Dec 2022 – Jun 2023
Photogen   *Remote — Paris, France*

- Pushing state-of-the-art Diffusion models to achieve photorealism by adapting Dreambooth.
- Generating group photo with several Dreambooth weights and Controlnet.
- Setting up cost-optimized cloud infrastructure on AWS with queue service, batch jobs, and autoscaling.

Data scientist Intern   Aug 2022 – Jan 2023
Polygon Technologies   *Santa Monica, United States*

- Leading research on how to diagnose mental diseases from videos of cognitive tests: speech-to-text, voice activity, face landmarks, human pose detection algorithms, and time series segmentation.
- Migration of the entire data pipeline from Google Drive to AWS. Setting up AWS Batch service with GPU.

Machine Learning Consultant   Feb 2022 – Jul 2023
Paris Digital Lab   *Paris, France*

- *French Ministry of Armed Forces*: Achieved 0.95 mAP @ IOU 0.5 with YOLOv3 on radio wave detection.
- *L'Oréal*: Retrieved lipstick on selfies. Reached 1% normalized MSE on optical properties with deep regression.
- *Oorion*: Automated annotation of classification and object detection datasets with few-shot algorithms.

EXTRA-CURRICULAR ACTIVITIES

President of Automatants, AI student organization Managed a team of 20 members, provided courses for 50+ students, organized events related to AI, gathered knowledge and wrote summaries of 100+ papers.

Data Analyst at Etandex, Freelance Leveraged XGBoost and explainable AI tools (Anchor, Lime, SHAP values) to predict business opportunity outcomes with transparency and interpretability.

Winning Leaf Nothing Behind competition Pixelwise prediction of the Leaf Area Index from Radar and optical satellite data. Paper accepted to Big Data from Space 2023 conference (November 2023).

  Wang, C., Debouchage, A., Goldite, V., Wery, A., Salzinger, J. (2023). Leveraging historical and radar satellite data for leaf area index estimation with deep learning.

Private tutor 100+ hours of courses in Mathematics and computer science for undergraduate students.

SKILLS

Frameworks	Pytorch, Tensorflow, Pandas, NumPy, Sklearn, OpenCV, Plotly, Streamlit
Technologies	Bash, Linux, Docker, AWS, Jupyter, Git, Weights & Biases