Philippe Nguyen

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Professional experience

01/20–07/20 **Data scientist**, Learn To Forecast, Lausanne
Building a computer vision and time series forecasting web platform (Giotto cloud)
Development of a time series forecasting open-source library (giotto-time)

06/19–12/19 **Machine learning intern**, Learn To Forecast, Lausanne
Topological data analysis open-source library development (giotto-tda)
Neural spike time-series predictions using topological features (ENS data challenge)
Article topics extraction with graph theory and relevance indicators

2018 **Research intern**, LAMSADE, University of Paris Dauphine, Paris
Art style identification of a picture and painting recommendation using deep learning (link)
Experimentations based on Triplet loss function
Artistic dataset generation from existing photos dataset (Adobe FiveK Dataset)

2017 **Full-stack developer intern**, Kibitoh, Paris
Development and deployment of a SMS tracking web platform for digital marketing (bullema)

Education

2017–2019 **MSc in Computer Science, University of Paris Dauphine**
Data mining, Machine learning, Reinforcement learning, Combinatorial optimisation, Multiple-criteria decision analysis, Linear programming, Automata and language theory

2013–2017 **BSc in Mathematics, IT and Economics, University of Paris Dauphine**
Mathematics - Computer Science option
Applied mathematics, Algorithmic & Graph theory, Relational databases

Projects

current **Computer vision mobile application**
Pictures dataset annotation, object classification and object detection Android/iOS (Flutter) application development with Python remote backend for training, remote and on-device inference (demo)

2020 **Machine learning and finance Hackathon, 2nd edition**, University of Paris Dauphine, finalist
Volatility prediction of financial data (QMI Hackathon 2020)

2019 **Machine learning and finance Hackathon**, University of Paris Dauphine, finalist
S&P 500 Binary classification on time series (QMI Hackathon 2019)
Vasicek parameters estimation and dataset generation

2018 **Humbleloop** (link)
Infinityloop-like puzzle (Constraint Satisfaction Problem) Java generator using Vaadin GUI framework
Constraint Satisfaction Problem (Sudoku, Map colouring) Java solver

2017 **Where is Brian** (link)
Natural text processing for English level classification
Lemmatisation and deep learning classifier Python implementation

Skills

Software engineering

Python: scikit-learn, numpy, pandas, matplotlib, fastai, prophet, fastapi, django, flask
Android (Kotlin), Dart (Flutter), Java, C, Scala
Web: HTML/CSS/JS
System administration: Linux (NixOS, Debian), MacOS, Windows

Languages

French: native language
English: proficient (TOEIC: 810)
Vietnamese: fluent
German: academic

Associative

President of Dauphine Photo Club: film and digital photography courses and contests management

Personal interests

Sport: Badminton (14 years), table tennis (6 years), road cycling
Art: Film and digital photography, Kirigami and Origamic Architecture
Image processing: Photoshop, Lightroom
UI/UX design: Illustrator, Figma