

Anh-Vu Nguyen

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Education

Columbia University

Master of Science in Data Science

New York, NY

Expected Dec 2022

Télécom Paris, Institut Polytechnique de Paris

Master of Science in Data Science and Engineering, GPA 3.9/4.0

Palaiseau, France

Sep 2019 – Jul 2021

• Relevant courses: Mining of Large Datasets, Graph Mining, Statistics linear models, Machine Learning, Optimization

Louis-le-Grand

Scientific preparatory classes in advanced Mathematics and Physics, GPA 4.0/4.0

Paris, France

Sep 2017 – Jul 2019

• Preparation for nationwide competitive entrance examinations to the French “Grandes Ecoles”

Experience

EOS Dirigeant

Project for automating company’s surveys

Paris, France

Mar 2021 – Jul 2021

• Created an online tool with dozens of complex forms using React to automate interactions with future customers
• Developed front end with a team of 3 and integrated it with Spring Boot back end

Project Supervisor and Business Development Manager

Télécom Etude – Télécom Paris’s Junior Entreprise

Palaiseau, France

Sep 2020 – Mar 2021

• Supervised administrators to make sure processes are followed with respect to iso 9001 internal audit
• Developed customer network with school’s alumni connections to increase annual revenue to more than 50 000 euros
• Mentored and led future team of 10 with internal tools to optimize processes and ensure a seamless transition in 3 weeks

Praxion

Web development internship

Nanterre, France

Jul 2020 – Aug 2020

• Built a website for Praxion with SEO optimizations resulting in an increase of web traffic by 20 %
• Combined a Customer Relationship Management platform with company’s system to manage thousands of customers
• Monitored performance with analytics tools (Google Analytics) and migrated site to new hosting servers with no downtime

Projects

Squeeze-and-Excitation Networks

• Built Squeeze-and-Excitation convolutional networks with Tensorflow to improve Resnet accuracy
• Used GCP to train custom SE-Resnet18, SE-Resnet34, and SE-Resnet50 networks and improve the accuracy over regular Resnet models by more than 1.5% on Tiny ImageNet and CIFAR 10/100 models
• Performed ablation, stage integration and implementation studies to verify the paper’s results

Top 1 Kaggle challenge - Image classification

• Built concatenated convolutional neural networks using ResNet-50V2 and InceptionV3 with TF2.4
• Used transfert learning and fine-tuning with test time augmentation and data augmentation to achieve Top 1 accuracy in the graduate level private Kaggle challenge with 132 Master student participants.
• Used Google Cloud Platform to train the models on a bottle data set with a T4 GPU, resulting in 98.78% accuracy.

Task-distribution in Peer-to-Peer Networks

• Modeled a multi-agent system achieving decentralized task-distribution in peer-to-peer networks
• Implemented and tested performance of 4 algorithms in NetLogo such as gossip algorithm with a team of 3 students
• Expanded models and algorithms to account for more than 10 tasks to be distributed with minimal code changes

Technical skills

• Python, Tensorflow, PyTorch, Pandas, SQL, scikit-learn, R, JavaScript, Java, HTML, CSS3, Git, Arduino

Other

Languages: French (fluent), Spanish (intermediate), Vietnamese (intermediate)

Activities: music composition and production, passionate pianist (National Certificate of Musical Studies in 2014, France), film making club membership (organizing team of the 2021 Comète Film Festival), Debating club membership, swimming