

Timothée Ly

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WORK EXPERIENCE

RESEARCH ON DIFFERENTIAL PRIVACY | INTERNSHIP

LAAS-CNRS, France | Sept 2023 - Feb 2024

- Determined a tighter bound on Gini impurity sensibility and achieved higher accuracy with Smooth Sensibility on Greedy Rule Lists.
- Implemented a Differentially Private version of Corels with Laplace Mechanism.

FOOD BANK | INTERNSHIP

Perpignan, France | Jul 2021 - Aug 2021

- Carried out an audit of the food bank's IT equipment - control of system versioning across the different units.
- End-of-line quality control - Responsible for the distribution to the partnered associations - Labeling of products for accounting in the food bank software - Cold storage of fragile foodstuffs - Warehouse manutention

EDUCATION

Diplôme d'Ingénieur (Master equivalent)

Palaiseau, France | Sept 2020 - Apr 2024

TELECOM PARIS | GPA: 4.0/4.0

MEMBER OF INSTITUT POLYTECHNIQUE DE PARIS (IP PARIS) – 48th QS RANKING, 14th WORLDWIDE IN MATH 2023

Coursework: Stochastic Calculus, Continuous Time Markov Chains And Martingales, Statistics, Analysis (Fourier & Functional), Optimization, Machine Learning, Representation of Signals, Time Series, Speech and Audio Processing

Double Degree

Stockholm, Sweden | Aug 2022 - Apr 2024

KTH ROYAL INSTITUTE OF TECHNOLOGY

Coursework: Data Mining, Data Intensive Computing, Advanced Machine Learning, Artificial Neural Networks and Deep Architectures, Natural Language Processing, Information Retrieval Systems

Classes Préparatoires

Toulouse, France | Sept 2018 - Jun 2020

LYCÉE PIERRE DE FERMAT | GPA: 4.0/4.0

Two intensive years of mathematics, physics and computer science to prepare for the national competitive exams of the *grandes écoles*. Fermat is one of the most prestigious *classes préparatoires* in France.

PROJECTS

NEWS RECOMMENDATION SYSTEM

ELASTICSEARCH, BOOLEAN QUERY, TF-IDF, COSINE SIMILARITY

A news recommendation system built on top of Elastic Search which offers boolean query retrieval and recommendations processed from the user's preferences.

NETWORK INTRUSION DETECTION

DECISION TREES, NEURAL NETWORKS, NSL-KDD, IDS2017

Two-week project aimed at improving existings Neural Network systems trained to detect network intrusion.

VOLUNTEERING

FORUM ASSOCIATION | IT SECTION

Palaiseau, France | 2021 - 2022

The Telecom Paris Forum is the association responsible for the organisation of the fair where companies come to the school to meet students. As a member of the IT section, I was in charge of maintaining the website and the database.

MATHEMATICS AND PHYSICS TUTORING | TUTOR FOR HIGH SCHOOLERS

Remote | 2021 - 2023

SKILLS

Languages: Java, C/C++, Python, SQL, Notions of JavaScript, HTML/CSS

Technology: Git, MySQL, Elasticsearch, Spark, \LaTeX

Languages: French (Native speaker), English (TOEFL iBT: 110/120), Spanish (B1), Chinese(B1), Swedish(A2)