



Profil

PhD student at GRETTIA, graduate from École Polytechnique and KTH. My main research topics are Machine Learning applied to public transport.

Skills

Mechanics

- Solid Mechanics
- Optimal design of Structures
- Fluid-Solid Interaction

Computer Science

- Deep Learning
- Machine Learning
- Full stack developer
- Data Science
- Webscrapping



Driver License

Diploma for youth leaders and workers (BAFA)

Languages

English

TOEIC: 935
Language trips in United Kingdom and in Canada

German

August 2013-October 2013 :
Language stay in a host German family and participation in German courses

Swedish

Double-Degree in Sweden

Hobbies

Basketball

Running

Cross-country skiing

VianeyDarsel
PhD Student at GRETTIA
Graduate from Ecole Polytechnique and KTH

LinkedIn Profile

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EDUCATION

- 2022 - Current **Master's degree in machine learning** | Engineering school 📍 **KTH (Stockholm, Sweden)**
Main topics: Machine Learning, Deep Learning, Data Mining, Public Transportation
- 2018 - Current **Engineer Diploma from École Polytechnique** | Engineering school 📍 **École Polytechnique (Palaiseau, France)**
France leading school of science and engineering
Main topics : Applied Mathematics, Solid Mechanics, Numeric Simulation
GPA: 3,93
- 2016 - 2018 **Intensive program in science to prepare for nationwide competitive exam** | Exam preparation 📍 **Lycée aux Lazaristes (Lyon, France)**
Main topics : Mathematics, Physic and Engineering Science

PROFESSIONAL EXPERIENCE

- March 2024 - Current **PhD in Transport and Machine Learning** | PhD 📍 **Université Gustave Eiffel (Champs-sur-Marne, France)**
 - Tackling population synthesis
 - Generation of variable-size tabular data with Deep Generative Models
- Sept. 2023 - Jan. 2024 **Research Internship in Machine Learning** | Master Thesis 📍 **INRIA (Paris, France)**
 - Development of new solutions for the Image-to-Image translation problem using diffusion models
 - Carrying out a research project
 - Developping rigorous mathematical results
- Feb. 2022 - July 2022 **Mathematics and physics teacher** | Year off 📍 **Académie de Lyon (Lyon, France)**
 - Full-time substitute teacher in secondary schools in various social settings
 - Building a project over time
 - Respecting time constraints
 - Adaptating the content to the audience
 - Working for equal opportunities
- Sept. 2021 - Feb. 2022 **Data Analyst on Consumption & Performance forecasts** | Year off internship 📍 **Renault Group (Aubevoye, France)**
 - Analysis of influencing factors on the consumption of vehicles
 - Development of Machine Learning tools for decisions
 - Discovering the issues of Vehicle Engineering

HUMAN EXPERIENCE

- Dec. 2018 - April 2019 **Assistant leader** | Leadership training 📍 **1er Régiment Étranger de Génie (Légion Etrangère)**
 - Managment of soldiers
 - Adaptation to multicultural environment
 - Train soldiers in different subjects (tactics/French langage/sport)
- July 2016 **Coordinator of Activities for young children** | Summer camp counselor 📍 **Centre La Moraine (France)**
 - Youth leader in a holiday camp of children (7-14 years old)
- Janv. 2015 - Juin 2016 **Basketball Trainer** 📍 **ESGA Basket (Genas, France)**
 - Trainer of a team of young players (7-11 years old)
 - Manage a team
 - Develop team spirit

player and coach
participation to raids and trails

Video editing Technical leader of an audiovisual association
Web development Creation of several websites