

Jules Bangard

PhD Student in Statistics

✉ jbangard@math.unistra.fr
🐙 github.com/JulesBa-Git
🌐 bangard.me

LANGUAGES

French : Mother tongue
English : Fluent
German : Beginner
Polish : Beginner

GENERAL SKILLS

Programmation:

R, C/C++, Python (Scikit-learn, Tensorflow, Keras, Matplotlib, Streamlit, Pyspark),
JAVA (Hadoop), SQL, C#

Machine Learning:

Regression, Classification, Monte-Carlo Methods (e.g. MCMC), Deep learning

Statistics:

Hypothesis testing, Dimensionality reduction (PCA, CA), Clustering

Others:

Git, Shell/Bash, \LaTeX

COURSEWORK

Statistics & Linear Algebra
Advanced Algorithmic
Complex Systems
Artificial Intelligence
Data Analysis
Machine Learning
Natural Language Processing
Distributed Systems
Data Warehouse

09.02.2024

EDUCATION

Université de Strasbourg

PhD in Statistics

2023 - present
Strasbourg

Université de Strasbourg

Master's degree in Data Science and Complex Systems
With honours

2021 - 2023
Strasbourg

Université de Haute-Alsace

Bachelor's degree in Computer Science
With honours

2018 - 2021
Mulhouse
Rank 1/35

EXPERIENCES

Université de Strasbourg, IRMA Laboratory February 2023 - August 2023

Subject : Statistical algorithms for the detection of adverse reaction of drug cocktails

The goal of this project was to study and implement a search algorithm for couples (drugs/drug classes, Adverse Event) with a high risk using Monte-Carlo Markov Chain method. Implementation was done with R and C++ languages.

Deep learning for the linguistic description of images

University project for the second year of my master's degree

Implementation of a deep neural network allowing the description of images in natural language.

- Realization of a state of the art report.
- Developed a deep understanding of transformers architecture.
- Deployment of the model on a website allowing the use of the model in a simple and fast way.

Infosat May 2021 - August 2021

Internship

Software development and language migration for the company Infosat

- Object-Oriented Programming (C#).
- Work in a large team of IT Developer.
- Using GIT as the version control system.