



# BILAL AL TAKI

## Doctor Data Scientist|Artificial Intelligence

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📅 January 2023

## EDUCATION

Ph.D. in Appl. Math.  
Grenoble-Alpes Univ. & Lebanese Univ.

📅 2013 – 2016 📍 FR, LB

Studying problems related to fluid mechanics: Oceanography, Gas dynamics.

Master degree in Appl. Math.  
Lebanese Univ. & Nantes Univ.

📅 2011 – 2013 📍 FR, LB

Stability of finite difference schemes for hyperbolic boundary value problems.

## CERTIFICATIONS

- What is Data Science|IBM.  
([Syllabus](#), [Certificate](#))
- Python for Data Science, AI & Development|IBM.  
([Syllabus](#), [Certificate](#))
- Data Science with Python|IBM.  
([Syllabus](#), [Certificate](#))
- Machine Learning with Python.  
([Syllabus](#), [Certificate](#))
- Machine Learning Specialization|Stanford.  
([Syllabus](#), [Certificate](#))

## STRENGTHS

Data Visualization Python  
Machine Learning Tensorflow  
Deeplearning Latex Github  
SQL

## RESPONSIBILITIES

- Master Intership Co-Supervision of C. El Hassanieh at [INRIA](#).
- Participation in the jury of "Advance Coucours" at [EPITA](#).

## LANGUAGES

Arabic French English

## HOBBIES

- Basketball and Badminton
- Human behavior

## ABOUT ME

*Having a Ph.D. in applied mathematics, and being passionate about Artificial Intelligence and Machine Learning related subjects with good knowledge in this field, I am looking at joining a dynamic company and working on innovate projects for a promising future.*

## EXPERIENCE

### Visiting Researcher | [TU Kaiserslautern](#)

- 📅 Sept 2022–Present 📍 Kaiserslautern, DE
- Studying non-Newtonian fluids for medical and environmental applications.

### Research and Teaching Fellow | [Sorbonne University](#)

- 📅 Sept 2021– Aug 2022 📍 Paris, FR
- Teaching mathematics courses for first and second academic year students.
  - Establishing new mathematical results concerning problems related to Landslide phenomena.

### Researcher | [Peking University](#)

- 📅 Jan 2020 – Aug 2021 📍 Beijing, CN
- Developing new achievements to better understand the shoreline problem in environmental problems.

### Research and Teaching Fellow | [Sorbonne University](#)

- 📅 Jan 2019– Aug 2019 📍 Paris, FR
- Teaching mathematics courses for first and second academic year students.
  - Collaborating with colleagues during the [CEMRACS'19](#) conference to study the different numerical schemes devoted to the Compressible Navier-Stokes equations (used to model gas dynamics flow).

### Researcher | [INRIA](#)

- 📅 Sept 2017 – Dec 2018 📍 Paris, FR
- Teaching mathematics courses for Engineering students at [Polytech Sorbonne](#).
  - Developing new models to better understand the Tsunami phenomena.

## PROJECTS

Here is a list of projects that I have done as a part of self-training on Data Science.

### Data Science with Python | 🔄 2022

The aim of this project is to fit a linear regression or a Ridge Regression model to predict the price using the list of features given on a dataset which contains house sale prices for King County.

### Machine Learning with Python | 🔄 2022

In this project, we use classification models such as K Nearest Neighbor(KNN), Decision Tree, Support Vector Machine, or Logistic Regression to determine whether a loan is paid off or in based on a dataset about past loans.

### Car's generation detection | 🔄 2022

The aim of this project is to predict the generation (I or II) of some unknown generation cars based on the features of each generation.

## SKILLS

- Project management.
- Achievement and challenges presentation.
- Development of artificial intelligence algorithms.
- Industrialization of artificial intelligence models in applications.
- Following latest advancements.