



# BILAL AL TAKI

## R&D in Data Science and Artificial Intelligence

Mars 22, 1991 French and Lebanese 14th arrondissement of Paris  
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 Homepage LinkedIn GitHub  
 Immediately available

## 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 Internship 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.
- Conducting research and publishing papers in academic journals.
- Development of artificial intelligence algorithms.
- Representing the university at conferences and delivering presentations when necessary.
- A peer reviewer of scientific manuscripts.