



# Zahra Zabihinpour

## Data Scientist

I'm a Data Scientist with a background in research, statistics, physics, and chemistry. I love tackling data challenges from different perspectives and finding creative solutions.



zabihin@gmail.com



+33666201578



linkedin.com/in/zahra-zabihinpour



## Experience

### Data Scientist

LUNA - Paris, France

01/2023 – 09/2023

**Machine Learning modeling, Natural Language Processing (NLP), Python Programming, Data Manipulation and Analysis, Image Processing, Data Extraction and OCR, Docker**

- Developing a prescription reader application
- Extracting key information such as medicine's names, posology, etc.

### Researcher

Institute for Research in Fundamental Sciences – Iran

2018-2021

**Numerical Simulation, Mathematical Modeling, MATLAB Programming, Chemical Kinetics**

- Stochastic simulation of chemical kinetics
- Mathematical modeling of biological systems

### Lecturer

Kharazmi University – Iran

2012-2018

**Statistical Thermodynamics, Physical Chemistry, MATLAB Programming**

Taught courses :

- Statistical Thermodynamics
- MATLAB Programming
- Physical Chemistry
- Molecular Spectroscopy



## Education

### Data Scientist Training – FullStack

Jedha Bootcamp, Paris, France

05/2022-08/2022

**Image classification, Convolutional Neural Network, Transfer Learning**

- Designed and trained a deep learning model to analyze chest CT scan images for the early detection of lung cancer.
- Developed and deployed a web application using deep learning and Streamlit for the classification of chest CT scan images, achieving 96.3% specificity, and 80% accuracy.

### Ph.D., Physical Chemistry

Kharazmi University, Tehran, Iran

2007-2012

**Numerical Simulation, C programming, Statistical analysis - Power Law Probability Distribution**

- Numerical simulations of superdiffusion utilizing power law probability distribution
- Proof of nonergodicity of Lévy flight through the extraction of analytical formulas



## Skills

### Programming

Python, C, MATLAB, SQL

### Data Visualization

Matplotlib, Seaborn, Plotly

### Image Processing

OCR, OpenCV, Pillow

### Machine Learning

Supervised Learning, Unsupervised Learning, Scikit-Learn, Reinforcement Learning, Model Evaluation and Validation, Feature Engineering

### Deep Learning

Natural Language Processing (NLP), Recurrent Neural Networks (RNNs), Convolutional Neural Networks (CNNs), TensorFlow, Transformers, Hugging Face

### Code collaboration

Git, GitHub, Bitbucket

### Web Scraping

Data Extraction, HTML Parsing, Web Data Collection, BeautifulSoup, Selenium

### Industrialization

Docker, Deployment

### Physical Chemistry/ Statistical Thermodynamics

Numerical Simulation, Gaussian Distribution, Power Law Distribution, Chemical Kinetics



## Languages

**English** : Professional Working Proficiency

**French** : Intermediate

**Persian** : Native



## Certifications

Concepteur - Développeur en Science des données, **Jedha Bootcamp**

Machine Learning A-Z: Hands-On Python and R in Data Science, **Udemy**

Python for Data Science, **Udemy**