



Zahra Zabihinpour

Data Scientist, PhD in Physical Chemistry & Statistical Thermodynamics

Highly motivated data scientist with a background in healthcare, basic science, research, and statistics. Eager to learn in a fast-paced environment, while thriving in an agile team. I really enjoy coding and having an impact on people. I also value teamwork and building strong relationships.

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TECHNICAL SKILLS

Programming languages

Python, C, MATLAB, SQL

Data Analysis & Management

Data visualization, Tableau, GCP, AWS (S3), MySQL, ETL - Web Scraping, Spark.

Machine Learning / Deep Learning

Keras, TensorFlow, spaCy, Transformers, Dash, Flask, FastAPI, LLM.

Web Scraping

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

Data Engineering

Docker, MLflow, Streamlit, Heroku,

Project Management

Agile methodologies, Scrum, Jira, Git, GitHub, Bitbucket.

PERSONAL PROJECTS

Symptom checker, diagnosis app

- ◇ Tech stack: Tensorflow, BERT, Hugging face (Training model), Streamlit, GPT-3.
- ◇ <https://huggingface.co/spaces/Zabihin/Symptom-Diagnoses>

Lung cancer diagnosis, CT scans

- ◇ Tech stack: Image classification, CNN, transfer learning, Inception model.
- ◇ <https://lung-cancer-ct.streamlit.app>

NLP with disaster tweets (Kaggle)

- ◇ Tech stack: Tensorflow, Spacy, RNN, LSTM, GRU.
- ◇ https://github.com/Zabihin/NLP_disaster_tweet

LANGUAGES

English / French
Professional Working Proficiency

Persian
Native or Bilingual Proficiency

INTERESTS

AI

Healthcare

Impact

WORK EXPERIENCE

Data Scientist

Luna

01/2023 - 12/2023

Paris, France

Luna is an emerging impact & AI startup dedicated to shape the future of women health, starting with optimizing endometriosis care path journey.

Achievements/Tasks

- ◇ Led a core end-to-end NLP project, from data collection to deployment - on drug discovery.
- ◇ Implemented state-of-the-art machine learning models and OCR tools to read drug prescriptions and analyse hormonal treatments for endometriosis care.
- ◇ Close collaboration within a team of 3 data scientists in an agile environment.
- ◇ Technologies used : PyTesseract, EasyOCR, PaddleOCR, Regex, FastAPI, Docker, Streamlit, OpenCV.

Researcher

Institute for Research in Fundamental Sciences

12/2018 - 01/2021

Teheran, Iran

#1 Research center in Iran, known for its fundamental sciences publications.

Achievements/Tasks

- ◇ Led a project on stochastic simulation of Gene Expression with delay-differential equations.
- ◇ Stochastic simulation of chemical kinetics using Gillespie algorithm • Mathematical modelling of biological systems.

Lecturer

Kharazmi University

09/2011 - 01/2021

Teheran, Iran

Historical prestigious university in Iran specialised in engineering and fundamental sciences.

Achievements/Tasks

- ◇ Courses taught: Statistical thermodynamics • MATLAB programming • Physical chemistry • Molecular spectroscopy • Quantum chemistry.

EDUCATION

Fullstack Data Science Bootcamp

Jedha Bootcamp - #1 in Europe

05/2022 - 08/2022

Paris, France

Courses

- ◇ **Image classification, Convolutional Neural Network** • Designed and trained a deep learning model to analyse chest CT scan images for the early detection of lung cancer.
- ◇ **Transfer Learning** • Implemented neural network and deployed a web app on Streamlit to classify chest CT scan images, achieving 96.3% specificity, and 80% accuracy.

PhD Physical Chemistry, Statistics

Kharazmi University

09/2007 - 06/2012

Teheran, Iran

Courses

- ◇ Numerical simulations of super-diffusion using power law probability distribution.
- ◇ Proof of non-ergodicity of Lévy flight through the extraction of analytical formulas.