



## Contact Info

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## Language Skills

English Advanced  
• IELTS: L(6.5) , R(6.5) , W(6.5) , S(7)

Turkish Advanced  
Persian Native

## Computer Skills

Python	Advanced
TensorFlow	Advanced
PyTorch	Intermediate
NumPy	Advanced
Pandas	Advanced
Matplotlib	Advanced
Keras	Advanced
Scikit-learn	Intermediate
Git	Intermediate
SQL	Intermediate
MATLAB	Intermediate

# Peyman Vahidi

Chemical Engineering Graduate  
Deep Learning Enthusiast

## About Me

Deep Learning Enthusiast with 3+ years of experience in developing various ML models for different applications. Curious about Data-Centric AI and Computer Vision.

### Research interests:

- Computer Vision
- Medical Imaging
- Deep Learning
- Artificial Intelligence

## Education

### B.Sc. Chemical Engineering

*Ferdowsi University of Mashhad, Mashhad, Iran*  
*Sep 2017 – Jul 2022*

- Cumulative GPA: 3.81 of 4
- Thesis title: Direct Synthesis of Dimethyl Ether from Syngas  
Supervisor: Dr. Elham Yasari
  - Modeled, simulated and optimized a Fix Bed Reactor using Python
  - Used an interactive GUI to have a better understanding of some variables' effects on the final results

## Work Experience

### Python Tutor

*Self-employed*  
*Jun 2022 – Sep 2022*

Taught the basics of Python programming language to participants in various competitions related to web development, mobile app development, data science, and software engineering

- Demonstrated class managing and communication skills in an interactive environment with students
- Supervised students' progress and amplified their performance using a dynamic teaching method

## Certifications

[AI For Medical Diagnosis](#)

[Introduction to Machine Learning in Production](#)

[Structuring Machine Learning Projects](#)

[Deep Learning Specialization](#)

[Sequence Models](#)

[Convolutional Neural Networks](#)

[Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization](#)

[Neural Networks and Deep Learning](#)

[Machine Learning](#)

## Projects

Chest X-Ray Medical Diagnosis

- Used transfer learning to retrain a DenseNet101 model
- Measured diagnostic performance by computing AUC for the ROC curve
- Visualized model activity using GradCAMs technique

Brain Tumor Auto-Segmentation for Magnetic Resonance Imaging (MRI)

- Used standard data preparation techniques for MRI datasets
- Created a 3D U-Net model to segment tumor regions into three different classes and visualized it

101 Different Food Classification

- Accelerated model training by 3x using mixed precision training
- Used prefetching and multithreaded loading and preprocessing to improve data loading speed
- TensorBoard callback used to address various hyperparameters' effects

## International Students' Tutor

*Self-employed*

*Sep 2019 – Mar 2021*

Tutored various chapters of "Basic Principles and Calculations in Chemical Engineering" and "Thermodynamics" courses to international student

- Ensured students' progress in the curriculum through 1:1 support
- Provided effective online classroom management during COVID-19

## Teaching Assistant

*Ferdowsi University of Mashhad*

*Feb 2019 – Feb 2022*

- Heat Transfer (I) (3 semesters)  
Supervisor: Dr. Seyed Mostafa Nowee
- Thermodynamics (I) (2 semesters)  
Supervisor: Dr. Mahdi Pourafshari Chenar
- Basic Principles and Calculations in Chemical Engineering (2 semesters)  
Supervisor: Dr. Hamed Karkhanechi

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## Honors and Awards

- Ranked 2<sup>nd</sup> in GPA among 60 students  
*Ferdowsi University of Mashhad*  
Jul 2022
- Received full scholarship from Ferdowsi University of Mashhad  
Sep 2017
- Ranked within the top 1.2% in Iranian University Entrance Exam among 149,000 participants  
Aug 2017

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## References

- Dr. Hamed Karkhanechi      Email: [karkhanechi@um.ac.ir](mailto:karkhanechi@um.ac.ir)
  - Dr. Seyed Mostafa Nowee      Email: [nowee@um.ac.ir](mailto:nowee@um.ac.ir)
  - Dr. Elham Yasari      Email: [elhamyasari@um.ac.ir](mailto:elhamyasari@um.ac.ir)
  - Dr. Mehdi Karimi      Email: [mehdikarimi@um.ac.ir](mailto:mehdikarimi@um.ac.ir)
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