

Korosh Agha Mohammad Ghasemi | Curriculum Vitae

University of Shiraz–Chemical Engineering

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RESEARCH INTERESTS

- AI Programming
- Machine Learning
- Process Control




EDUCATION

- **Bachelor of Science** [2019 – Present]
 Shiraz University
- Chemical Engineering
- **GPA: 3.9/4 (Present)** Shiraz-Iran
- **High School** [2016 – 2019]
 Shahid Motahari High School
- **GPA: 4/4** Bushehr-Iran

HONORS

- Rank **10 Percent First** Chemical Engineering, Shiraz University, Shiraz, Iran.
- Ranked **1000st** in university entrance exam, among more than 200,000 participant [Summer 2019].
- Granted admission from Talented Student Office of Shiraz University for graduate study.
- Top participant in the **Rahneshan** match of the Iran's National Elites Foundation [2021]
- Member of the Scientific Association of **Energy and Environment** of Shiraz University[2021]









WORK EXPERIENCES

-  FoumanChimie Company
- **Data Analyst**
- Machine Learning Frameworks:
SciPy, scikit-learn, pandas, NumPy, Matplotlib, TensorFlow, Keras, Kafka, Spark, PySpark, Kubeflow, TFX
-  Kheilisabz Company
- **Book Editor**
- Chemistry Test Book
-  Ghalamchi Company
- Teaching Assistant
- Provide of educational and emotional support for High school Students













LANGUAGE SKILLS

- Persian Native
- English Fluent
- **IELTS will be taken in near future.**

COURSES

- | | |
|---|--|
| ○  MATLAB Programming - Grade:A ++ [2020] - Instructor: Dr.Fatemeh Hejazi | ○  Mass Transfer - Grade:A + [2022] - Instructor: Dr.Payman Keshavarz |
| ○  Fluid Mechanics - Grade:A ++ [2021] - Instructor: Dr.Shadi Hassanajili | ○  Industrial Drawing - Grade:A ++ [2022] - Instructor: Dr.Hamed Peyrovedin |
| ○  Engineering Mathematics - Grade:A + [2021] - Instructor: Dr.Mohammad Khorram | ○  Physics Laboratory 1&2 - Grade:A ++ [2022] - Instructor: Dr.Marzieh SedaghatNejad |
| ○  Thermodynamics 1&2 - Grade:A + [2021] - Instructor: Dr.Alireza Shariati | ○  Chemistry Laboratory 1 - Grade:A++ [2022] - Instructor: Dr.Leila Sakhtmanian |



Online Courses

- | | |
|---|--|
| -  Basic Python Programming | -  MATLAB Basics |
| -  Python 3.6 for Total Beginners | -  MATLAB/SIMULINK |
| -  Learn Python,Basic to Advance | -  Machine Learning |
| -  Python 3 Master Course for 2021 | -  Git and GitHub |
| -  Einstieg in Excel-Dashboards | -  Visual Studio Code |
| -  COMSOL Multiphysics | -  AutoCAD |

COMPUTER SKILLS

- | | | |
|----------------------|---------------|-----------------------------------|
| ○ Python | ○ Aspen HYSYS | ○ AutoCAD |
| ○ MATLAB | ○ HTML | ○ L ^A T _E X |
| ○ Microsoft Office | ○ JavaScript | |
| ○ Visual Studio Code | ○ C/C++ | |

PROJECTS

-  **Polymer Flooding** - Shiraz University (Group project) [Feb 2020 - Jan 2021]
 - Enhanced oil recovery (EOR)
 - Data analysis with Python and MATLAB(Building on the comprehensive, fundamental mechanisms and mathematical computations detailed , the Enhanced Oil Recovery presents the latest insights into the applications of EOR processes)
 - Simulations of Enhanced Oil Recovery Processes
 - Review the method and the negative and positive points
 - Instructor: Dr. Shadi Hassanajili
-  **Antifreeze** - FoumanChimie Company (Team project) [Jan 2021 - Present]
 - Using Support Vector Machine and Evolutionary Profiles to Predict Antifreeze Protein Sequences
 - Antifreeze proteins (AFPs) are ice-binding proteins. Accurate identification of new AFPs is important in understanding ice-protein interactions and creating novel ice-binding domains in other proteins. In this paper, an accurate method, called AFP PSSM, has been developed for predicting antifreeze proteins using a support vector machine (SVM) and position specific scoring matrix (PSSM) profiles.
 - Research and design of model learning machine and artificial intelligence with Python
 - Instructor: Dr.Amir Golroo

TEACHING EXPERIENCES

o Teaching Assistant

-  Advanced Programming [Aug 2021]
 - Leading and supervising students in Course Material, Exams (MATLAB)
 - Instructor: Dr. Fatemeh Keyvani (Shiraz University)
-  Advanced Programming [Sep 2021]
 - In recognition of your attending in the oil & Gas & petrochemical industries course in the Summer school of Amirkabir University of Technology.
 - Instructor: Dr. Amir Golroo (Amirkabir University of Technology)
-  Advanced Programming [Jan 2022]
 - Leading and supervising students in Course Material, Exams (MATLAB)
 - Instructor: Dr. Hamed Peyrovedin (Shiraz University)
-  Advanced Programming [Jan 2022]
 - Leading and supervising students in Course Material, Exams (MATLAB)
 - Instructor: Dr. Behnam Shahsavani (Shiraz University)

! References, Further information, and Proofs are available upon Request