

Saleh MOZAFARI

Data Scientist | Machine Learning Engineer

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Educated in the field of Artificial Intelligence and experienced Data Scientist with more than eight years of experience in leading Data Science teams and developing Computer Vision and Machine Learning applications. I have a great passion for taking on new challenges and driving business growth through innovative solutions.

WORK EXPERIENCE

Present
Sep 2018

Expert Data Scientist | Machine Learning Engineer – WidasConcepts GmbH, Wimsheim, Germany

Project: Cidaas-ID-Validator (2018 – Present)

Role: Expert Data Scientist

- › Developed various microservices to serve Machine Learning models
- › Designed and developed OCR model for information retrieval from identity documents
- › Created a security check system for identity documents using Computer Vision and Probabilistic Graphical Models
- › Designed and implemented an HCI application for liveness detection using the eye-tracking methodology (ninoxipy)
- › Contributed to creating an MLOps framework for the deployed models

Project: Cidaas-FDS (2020 – Present)

Role: Lead Data Scientist

- › Designed an ML-based Cybersecurity architecture.
- › Implemented RESTful APIs to serve fraud detection models
- › Contributed to creating a CI/CD pipeline for deploying and testing models
- › Designed and developed a Smart MFA using Fuzzy Inference System (FIS).

Project: Bosch-EBR (2020 – Present)

Role: Senior Data Scientist and Senior Developer

- › Developed an NLP-based vehicle identification system using NER and Graph Theory
- › Implemented a RESTful API to serve vehicle identification model.
- › Developed a stream processing framework with faust for EBR microservices.

Project: Porsche-CCD (2018 – 2019)

Role: Data Scientist

- › Designed and developed spatio-temporal model of internal sensory data and geo-location of Porsche cars for corner case detection
- › Create an interactive UI for monitoring Porsche cars and plausible corner cases
- › Developed a data streaming system using MQTT and tornado

Project: Chinese Painting Seal Assessment (2018 – 2019)

Role: Data Scientist

- › Designed and developed a deep-learning model to identify Chinese artists' seal
- › Designed and developed a recurrent model to verify the artists' seal originality.

Docker Kubernetes GitLab DC/OS Python C++ R OpenCV dlib Ray ReactJS Elasticsearch Redis
Mongodb Apache Kafka spacy nltk tesseract ocrpy FastAPI Flask tornado Jupyter-notebook numpy
scipy pandas matplotlib seaborn bokeh PyTorch Pyro Tensorflow keras scikit-learn scikit-image
scikit-fuzzy

Aug 2018
Sep 2014

Researcher and Developer – DFKI GmbH, Kaiserslautern, Germany

- › Modeling of gaze movements for Human-Document Interaction for the Immersive Quantified Learning lab (iQL).
- › Design a Human-Computer Interaction system based on eye-tracking technology to aid handicaps (AICASys Project).
- › Developing a novel generative probabilistic model to synthesize eye-movement patterns.
- › Teaching Data Mining Course at TU Kaiserslautern as the teacher assistant.
- › Supervise Master and Bachelor dissertations in the field of AI and HCI at TU Kaiserslautern.

Docker GitLab Python C++ R Matlab JavaScript ZMQ IoT OpenCV dlib jupyter-notebook numpy
scipy pandas matplotlib seaborn bokeh Edward keras scikit-learn scikit-image scikit-fuzzy Git

Aug 2014 Nov 2013	Data Scientist Web Developer – Freelancer, Tehran, Iran <ul style="list-style-type: none"> ➤ Developing ML-based personality assessment for the MAPNA Group's employees' (20000+) psychological assessment (Iran). ➤ Design and develop a portal for psychological assessment with PHP and Python. <div> Python2 PHP XAMPP JavaScript CSS AutobahnPython TortoiseSVN plotly spyder </div>
Nov 2013 Sep 2012	University Lecturer – Azad University, Tehran (Roudehen), Iran <ul style="list-style-type: none"> ➤ Teaching the courses Statistics, Data Mining, and Image Processing for undergraduate students of Computer Science. ➤ Teaching the courses Exploratory Data Analysis and Inferential Statistics for postgraduate students of Clinical Psychology. <div> Python R SPSS Matlab </div>


EDUCATION

2016 – 2023	Ph.D. Degree in Artificial Intelligence - RPTU Kaiserslautern – Landau, Kaiserslautern, Germany Thesis Title: Towards Eye Movements Analysis in Human-Document Interaction Status: <i>Submitted</i>
2009 – 2011	M.Tech in Computer Cognition Technology - University of Mysore, India Thesis Title: Cancer Prediction Using Microarray Expression Data GPA: 9.3 / 10 (<i>Distinction</i>)
2000 – 2004	B. Sc in Software Engineering - Azad University, Iran Graduation project: E-learning platform with ASP.Net GPA: 15.13 / 20 (<i>Iranian Grading Scale</i>)

SKILLS

Programming Languages	Python, R, C, C++, JavaScript, Go
Libraries	Numpy, Scipy, Pandas, scikit-learn, scikit-fuzzy, scikit-image, OpenCV, dlib, PyTorch, TensorFlow, Keras, Statsmodels, matplotlib, seaborn, bokeh, plotly, Flask, FastAPI, Sphinx, pytest
Databases	MySQL, SQLite, MongoDB, Redis, Elasticsearch
IDEs	PyCharm, Visual Studio Code, Sublime-text, Atom
MLOps Tools	GitLab, Docker, Kubernetes, MLFlow, Apache Kafka
Operating System	Fedora, Ubuntu, MacOS, Windows

PUBLICATIONS

The list of my publications can be found under the [Google Scholar profile](#) 

HONORS AND AWARDS

- Distinction student in Master of Computer Technology with GPA 9.3/10, University of Mysore, India.
- Best paper award in IAPR-HDI conference, Kyoto, Japan, Nov 2017.

LANGUAGES

English	Business fluent
German	Limited business fluent
Persian	Native

EXTRACURRICULAR ACTIVITIES AND HOBBIES

- Tennis
- Football
- Movies
- History