

# Saleh MOZAFARI

## Data Scientist | Machine Learning Engineer

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With over 10 years of rich experience, I am a dynamic and innovative Data Scientist specialized in Machine Learning, AI, and advanced analytics. My expertise lies in designing and implementing predictive models and algorithms that have significantly enhanced business processes and operational efficiency. Proficient in managing and interpreting large datasets, I am adept at translating complex data into actionable insights, leading to marked improvements in model accuracy and process optimization. My background in Software Engineering and AI, complemented by a continuous commitment to learning and development, enables me to blend technical acumen with strategic insight effectively. As an effective leader and communicator, I have a track record of successfully guiding cross-functional teams towards achieving key project milestones and objectives, making me a valuable asset in any team seeking to leverage data-driven decision-making.

## 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	<b>Researcher and Developer – DFKI GmbH, Kaiserslautern, Germany</b> <ul style="list-style-type: none"> <li>Modeling of gaze movements for Human-Document Interaction for the Immersive Quantified Learning lab (iQL).</li> <li>Design a Human-Computer Interaction system based on eye-tracking technology to aid handicaps (AICASys Project).</li> <li>Developing a novel generative probabilistic model to synthesize eye-movement patterns.</li> <li>Teaching Data Mining Course at TU Kaiserslautern as the teacher assistant.</li> <li>Supervise Master and Bachelor dissertations in the field of AI and HCI at TU Kaiserslautern.</li> </ul> <div> <span>Docker</span> <span>GitLab</span> <span>Python</span> <span>C++</span> <span>R</span> <span>Matlab</span> <span>JavaScript</span> <span>ZMQ</span> <span>IoT</span> <span>OpenCV</span> <span>dlib</span> <span>jupyter-notebook</span> <span>numpy</span> <span>scipy</span> <span>pandas</span> <span>matplotlib</span> <span>seaborn</span> <span>bokeh</span> <span>Edward</span> <span>keras</span> <span>scikit-learn</span> <span>scikit-image</span> <span>scikit-fuzzy</span> <span>Git</span> </div>
Aug 2014 Nov 2013	<b>Data Scientist   Web Developer – Freelancer, Tehran, Iran</b> <ul style="list-style-type: none"> <li>Developing ML-based personality assessment for the MAPNA Group's employees' (20000+) psychological assessment (Iran).</li> <li>Design and develop a portal for psychological assessment with PHP and Python.</li> </ul> <div> <span>Python2</span> <span>PHP</span> <span>XAMPP</span> <span>JavaScript</span> <span>CSS</span> <span>AutobahnPython</span> <span>TortoiseSVN</span> <span>plotly</span> <span>spyder</span> </div>
Nov 2013 Sep 2012	<b>University Lecturer – Azad University, Tehran (Roudehen), Iran</b> <ul style="list-style-type: none"> <li>Teaching the courses Statistics, Data Mining, and Image Processing for undergraduate students of Computer Science.</li> <li>Teaching the courses Exploratory Data Analysis and Inferential Statistics for postgraduate students of Clinical Psychology.</li> </ul> <div> <span>Python</span> <span>R</span> <span>SPSS</span> <span>Matlab</span> </div>

## EDUCATION

2009 – 2011	<b>M.Tech in Artificial Intelligence (Computer Cognition Technology)</b> - University of Mysore, India <b>Thesis Title:</b> Cancer Prediction Using Microarray Expression Data <b>GPA:</b> 9.3 / 10 ( <i>Distinction</i> )
2000 – 2004	<b>B. Sc in Software Engineering</b> - Azad University, Iran <b>Graduation project:</b> E-learning platform with ASP.Net <b>GPA:</b> 15.13 / 20 ( <i>Iranian Grading Scale</i> )

## SKILLS

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

<b>English</b>	Business fluent
<b>German</b>	Limited business fluent (B1)
<b>Persian</b>	Native