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# Kaiser Abbas

## ML Engineer / Data Scientist

Portfolio: [qaixerabbas](#)  
[github.com/qaixerabbas](#)  
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Experienced Machine Learning Engineer with 3+ years of industrial experience. Skilled in Deep Learning, Computer Vision, NLP, and Data Science. Strong R&D professional currently working as a Sr. Machine Learning Engineer at SDSol Technologies.

### SKILLS

<b>Languages</b>	Python, C, C++, MATLAB, JS, SQL
<b>Deep Learning</b>	Keras, TensorFlow, OpenCV, FastAI, PyTorch, Transformers, SpaCy, NLTK
<b>Machine Learning</b>	Numpy, Pandas, sci-kit learn, Matplotlib
<b>Tools</b>	VS Code, Sublime, PyCharm, Jupyter-Notebook, Google Colab, Postman, Streamlit
<b>Technologies</b>	Git, FastAPI, HTML, CSS, Flask, Django, Docker, Azure, AWS

### TECHNICAL EXPERIENCE

**Sr. ML Engineer** **Nov 2022 — Present**  
*SDSol Technologies* *Lahore, Pakistan*

- Developed a custom food recommendation system using unsupervised association rule mining and deployed as a REST API.
- Developed a video subtitle generation pipeline using OpenAI's Whisper.
- Developed an end-to-end query classification pipeline using NLP and Transformers.
- Developed an insect classification model and deployed on Azure using Azure Container Registry and Azure App service.
- Developed an API for sentence semantic similarity calculation using Sentence Transformers.
- Developing end to end machine learning projects for prediction, recommendation and computer vision problems.
- Helping stakeholders in data driven decision making by analyzing historical business data.

**Software Engineer (Deep Learning & Computer Vision)** **Nov 2021 — Jan 2022**  
*Wortel AI* *Lahore, Pakistan*

- Worked on weed detection algorithm using satellite images and YOLOv5.
- Developed a medical speech recognition system by fine-tuning an Nvidia QuatNet model via NeMo library.
- Worked on AWS S3 and MLFlow platform for deployment and maintenance of deep learning models.

**AI Instructor** **Mar 2021 — Sep 2022**  
*University of Engineering & Technology* *Lahore, Pakistan*

- Taught undergraduate AI and ML courses (Theory+lab).
- Assisted the senior faculty in designing course contents for AI/ML and writing proposals for research grants.
- My research proposal entitled "Tea disease detection using Machine Learning and Remote Sensing" won a grant of PKR 3.5 Million from Higher Education Commission's National Research Program for Universities

**Freelance Deep Learning Engineer** **Nov 2020 — Mar 2022**  
*UpWork & Freelancer.com* *Remote, Pakistan*

- Developed an image captioning algorithm for image retrieval using image's natural language description.
- Designed and developed a GAN model for Covid detection in CT Scans.
- Worked on various object detection projects using YOLO models.

**Research Assistant (Deep Learning)** **Jan 2020 — Oct 2020**  
*Bioinformatics Research Lab, UET* *Lahore, Pakistan*

- Worked with Prof. Dr. Muhammad Usman Ghani Khan on detection of rare and lethal Acral Lentiginous Melanoma.
- Developed a detection system for acral melanoma in dermoscopic images using proposed CNN architecture.
- Worked on Plant Disease Detection datasets and deployed classification models as REST APIs.

**Computer Vision Engineer** **Aug 2019 — Dec 2019**  
*Wizdojo Technologies* *Lahore, Pakistan*

- Developed a vehicle registration plate detection system using different deep learning algorithms.
- Collected and annotated data and trained a Mask RCNN model to detect and segment the vehicle registration plate.
- Designed a pipeline for extracting text from segmented license plate using Tesseract OCR.

### EDUCATION

**MS Computer Science**, *University of Engineering & Technology, Lahore* | 3.78/4.00 CGPA Sep 2018 — Nov 2020  
Thesis: Detection and Prediction of Acral Lentiginous Melanoma in Dermoscopic Images using Deep Learning

**BS Information Technology**, *University of Sargodha* | 3.63/4.00 CGPA | *Gold Medalist* Oct 2014 — May 2018  
FYP: Energy Optimized Smart Surveillance System using Raspberry Pi

### CERTIFICATIONS

Python 3 Programming Specialization by [University of Michigan](#) July 2020  
Deep Learning Specialization by [deeplearning.ai](#) April 2021  
Mathematics for Machine Learning by [Imperial College London](#) Sep 2020