Qaiser Abbas
ML Engineer / Data Scientist

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Experienced Deep Learning and Computer Vision Engineer with 2.5+ 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.

SKILLS

Languages	Python, C, C++, MATLAB, JS, SQL
Deep Learning	Keras, TensorFlow, OpenCV, FastAI, PyTorch, Transformers, SpaCy, NLTK
Machine Learning	Numpy, Pandas, sci-kit learn, Matplotlib
Tools	VS Code, Sublime, PyCharm, Jupyter-Notebook, Google Colab, Postman, Streamlit
Technologies	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 QuartNet model via NeMo library.
- Worked on AWS S3 and MLFlow plateform 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 licese 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