



Tahseen Abbas Hyder

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ABOUT MYSELF

Machine Learning Engineer with hands-on experience in building and deploying AI models, specializing in deep learning and computer vision applications. Proficient in Python, TensorFlow, and model deployment, with a focus on creating innovative solutions across various domains. Passionate about transforming data into actionable insights and optimizing systems for real-world use.

WORK EXPERIENCE

Machine Learning Engineer

NexPred Solutions [06/05/2023 – Current]

City: Remote | **Country:** Pakistan

- Worked on several end-to-end projects and took the lead for multiple on-boarded projects
- Actively participated in different development tasks such as data, training & evaluation pipelines.
- Deployed pipelines on different edge devices (i.e. Jetson device, ESP32) and cloud instances.

Data Science Intern

NexPred Solution [06/03/2023 – 05/05/2023]

City: Remote | **Country:** Pakistan

- Research about the latest AI tech.
- Understanding and modifying the available data pipelines.
- Understanding the model training and evaluations.
- Understanding the deployment server, edge device environments.

EDUCATION AND TRAINING

BE Computer Systems Engineering

QUEST Nawabshah [29/10/2018 – 22/11/2022]

City: Nawabshah | **Website:** <https://quest.edu.pk/>

Intermediate

BISE Hyderabad [29/09/2016 – 29/09/2018]

City: Hala New | **Country:** Pakistan | **Website:** <https://www.biseh.edu.pk/>

Matriculation

BISE Hyderabad [29/09/2014 – 29/09/2016]

City: Hala New | **Country:** Pakistan | **Website:** <https://www.biseh.edu.pk/>

LANGUAGE SKILLS

Mother tongue(s): Sindhi

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Urdu

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DIGITAL SKILLS

Python (PyROOT, RDataFrame; ML: Keras, TensorFlow) / Machine Learning and Deep Learning / Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation / Microsoft Office / Deep Learning Frameworks: Tensorflow, PyTorch

PROJECTS

FLOWERET – THE FLOWER RECOGNITION SYSTEM [B.E-FYP]

- Built end-to end Deep Learning Project and collected few flower species dataset from surrounding.
- Trained Custom CNN model and obtained the best results among the different pre-trained models.

Flatbread Analytics System

- Developed an AI-based system for kicker orientation detection for **ROTIMATIC** machine.
- Trained CNN models, converted them into binary weights, and deployed on the ESP32-Dev board.

AI Quizzeo App

- Prepared the quality dataset for hand gesture detection and trained YoloV8 model with 0.8 mAP.
- Converted the model to TFJS and integrated into the fully functional web based quiz application.

DIGIT ANALYSIS TOOL

- Trained a CNN model on digits data, generated its binary weights to rebuild model in C Program.
- Integrated the C Program into a .dll file for seamless integration with a C# app for digit prediction.

RECOMMENDATIONS

Name: Prof. Dr. Muhammad Sulleman Memon | Professor

A highly motivated and innovative problem-solver, Mr. Tahseen Abbas Hyder possesses a deep understanding of academic concepts. His well-organized approach makes him a strong candidate for higher studies and research.

E-mail: sulleman@quest.edu.pk | Phone number: (+92) 3337037187

Name: Prof. Iftikhar Ahmed Koondhar | Supervisor

I am writing to recommend Mr. Tahseen Abbas Hyder for a Master's program. He is an exceptional student with excellent technical, analytical and problem solving skills. I am confident that he will be a valuable addition to any academic institution.

E-mail: iftikhar.ahmed@quest.edu.pk | Phone number: (+92) 3332783609