



# 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

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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

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### 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 Quizzzo 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

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**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](mailto: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.

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