Results on Testing Data

1) Correct Prediction

2) Correct Prediction, quick result

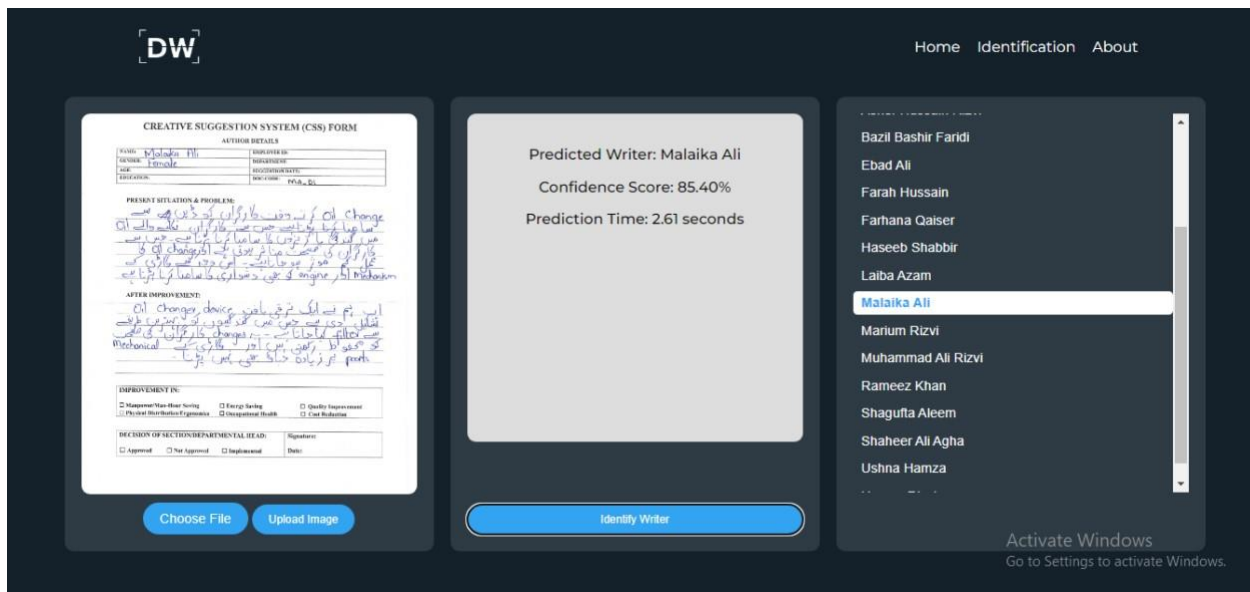3) Correct prediction

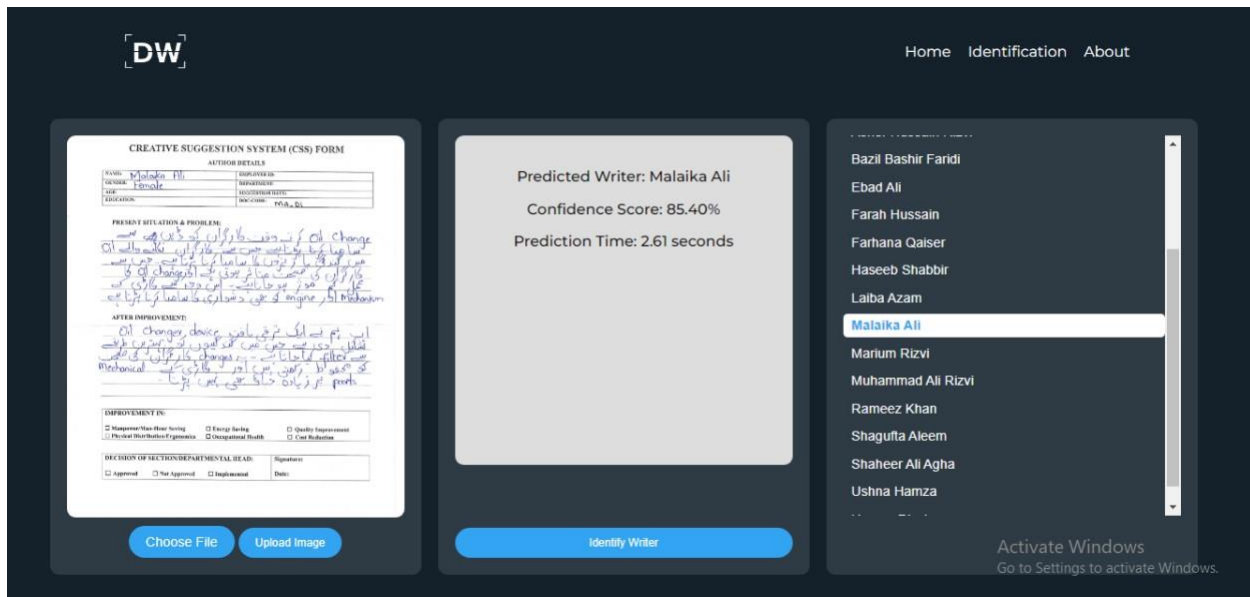# Frontend

1) Home Screen

2) Identification (Main Screen)

Predicted Writer: Malaika Ali

Confidence Score: 85.40%

Prediction Time: 2.61 seconds

Bazil Bashir Faridi
Ebad Ali
Farah Hussain
Farhana Qaiser
Haseeb Shabbir
Laiba Azam
Malaika Ali
Marium Rizvi
Muhammad Ali Rizvi
Rameez Khan
Shagufta Aleem
Shaheer Ali Agha
Ushna Hamza

Choose File   Upload Image

Identify Writer

Activate Windows
Go to Settings to activate Windows.

3) About Screen

Dataset

- The dataset used for training the model consists of a diverse set of handwritten documents collected from various sources.
- It includes samples from different individuals with varying handwriting styles.
- The writers were 20-60 years old.
- Total writers were 20.
- Each writer provided 20 samples.

Model Used

- The model used in DeepWriter is based on the Vision Transformer (ViT) architecture.
- ViT leverages transformer networks, which are highly effective in capturing the intricacies of handwriting features.
- Enables precise writer recognition.
- Our model obtained an accuracy of 96.5%.

Use Cases

- Biometric Handwriting Analysis.
- Forensic document examination.
- Historical manuscript analysis.
- Authentication of handwritten documents.
- Personalized handwriting-based services.
- Banking and finance.
- Medical records.

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