Solution Architecture

The solution architecture consists of the model trained on the MNIST dataset used to predict the handwritten data in a digitalized form. The user provide input as image from any device having camera. The model makes prediction based on the trained data. The output is shown to the user on the device. The model is trained on the MNIST data which consists of 70,000 images and is tested to evaluate its prediction.

```
┌────────┐         ┌────────┐         ┌────────────┐
│ Input  │────────▶│ Model  │────────▶│ Prediction │
└────────┘         └────────┘         └────────────┘
                        │
                        ▼
┌────────┐         ┌────────┐                    ┌───────────┐
│  User  │────────▶│   UI   │                    │ Algorithm │
└────────┘         └────────┘                    └───────────┘
                                                       ▲
                              ┌────────────────────────┴───┐
                              │                            │
                        ┌───────────┐              ┌────────────┐
                        │ Test data │              │ Train data │
                        └───────────┘              └────────────┘
                              │                            │
                              └──────────┬─────────────────┘
                                         ▼
                                   ┌────────────┐
                                   │ MNIST data │
                                   └────────────┘
```