

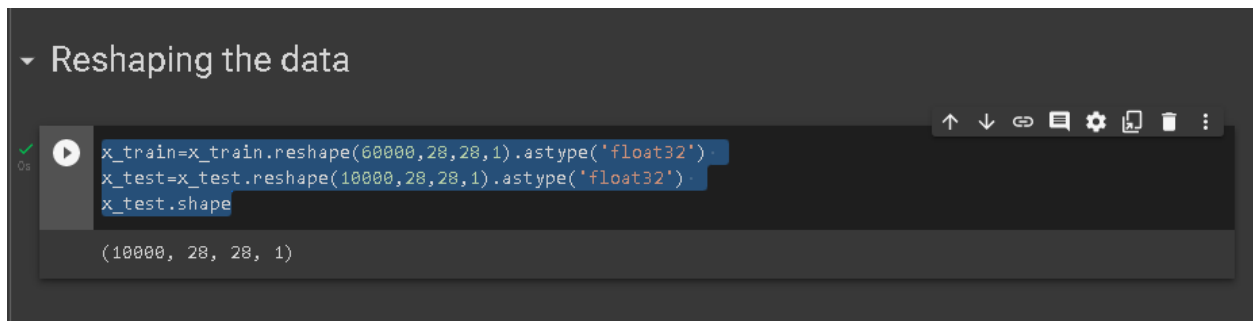
# A Novel Method for Handwritten Digit Recognition System

## Reshaping the data

```
x_train=x_train.reshape(60000,28,28,1).astype('float32')
```

```
x_test=x_test.reshape(10000,28,28,1).astype('float32')
```

```
x_test.shape
```



A screenshot of a Jupyter Notebook interface. The top section is titled "Reshaping the data" with a dropdown arrow. Below the title is a code cell containing three lines of Python code: `x_train=x_train.reshape(60000,28,28,1).astype('float32')`, `x_test=x_test.reshape(10000,28,28,1).astype('float32')`, and `x_test.shape`. The code is highlighted in blue. To the left of the code cell is a green checkmark and a play button icon. Below the code cell is an output cell displaying the result of the `x_test.shape` operation: `(10000, 28, 28, 1)`. The output cell has a grey background and a play button icon on the left.

```
Reshaping the data
```

```
x_train=x_train.reshape(60000,28,28,1).astype('float32')
```

```
x_test=x_test.reshape(10000,28,28,1).astype('float32')
```

```
x_test.shape
```

```
(10000, 28, 28, 1)
```