

3 0.000003 0.000857 0.001698 0.002834 0.232782 0.003157 0.003792 0.074334 0.012968 0.667575

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Why the 1: x = np.reshape(x, (len(indices), 28, 28, 1))

Grayscale Images: If your images are grayscale, they have only one channel, which is why we use 1. Each pixel is represented by a single intensity value, unlike colored images where each pixel is represented by multiple values (e.g., Red, Green, Blue).

Example Context: If you had RGB images (colored), the shape would instead be (len(valid_indices), 28, 28, 3), where 3 represents the three color channels (Red, Green, Blue).