Loaded data shape: (8447, 1000, 28) (epochs, time\_points, channels)

EEGNet input shape: (8447, 28, 1000, 1)

Epoch 1/100

**207/207** ━━━━━━━━━━━━━━━━━━━━ **53s** 234ms/step - accuracy: 0.5201 - loss: 0.7879 - val\_accuracy: 0.5262 - val\_loss: 0.6975

Epoch 2/100

**207/207** ━━━━━━━━━━━━━━━━━━━━ **48s** 233ms/step - accuracy: 0.5675 - loss: 0.6822 - val\_accuracy: 0.4171 - val\_loss: 0.7808

Epoch 3/100

**207/207** ━━━━━━━━━━━━━━━━━━━━ **49s** 238ms/step - accuracy: 0.6720 - loss: 0.6055 - val\_accuracy: 0.3333 - val\_loss: 1.0993

Epoch 4/100

**207/207** ━━━━━━━━━━━━━━━━━━━━ **49s** 237ms/step - accuracy: 0.7657 - loss: 0.4895 - val\_accuracy: 0.3533 - val\_loss: 1.3942

Epoch 5/100

**207/207** ━━━━━━━━━━━━━━━━━━━━ **48s** 233ms/step - accuracy: 0.8133 - loss: 0.3982 - val\_accuracy: 0.3911 - val\_loss: 1.6648

Epoch 6/100

**207/207** ━━━━━━━━━━━━━━━━━━━━ **48s** 232ms/step - accuracy: 0.8421 - loss: 0.3441 - val\_accuracy: 0.4300 - val\_loss: 1.5338

Epoch 7/100

**207/207** ━━━━━━━━━━━━━━━━━━━━ **49s** 235ms/step - accuracy: 0.8611 - loss: 0.3200 - val\_accuracy: 0.4252 - val\_loss: 1.5896

Epoch 8/100

**207/207** ━━━━━━━━━━━━━━━━━━━━ **48s** 230ms/step - accuracy: 0.8855 - loss: 0.2723 - val\_accuracy: 0.4403 - val\_loss: 1.6353

Epoch 9/100

**207/207** ━━━━━━━━━━━━━━━━━━━━ **49s** 236ms/step - accuracy: 0.8966 - loss: 0.2403 - val\_accuracy: 0.4333 - val\_loss: 1.9109

Epoch 10/100

**207/207** ━━━━━━━━━━━━━━━━━━━━ **48s** 229ms/step - accuracy: 0.8963 - loss: 0.2367 - val\_accuracy: 0.4473 - val\_loss: 1.7481

Epoch 11/100

**207/207** ━━━━━━━━━━━━━━━━━━━━ **48s** 233ms/step - accuracy: 0.9101 - loss: 0.2203 - val\_accuracy: 0.4911 - val\_loss: 1.5416

Test Accuracy: 52.62%

Test Loss: 0.6975

