**Experiment 2**

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**1. Model with no bias and kernel**

acc: 0.4757

val\_loss: 1.4538

val\_acc: 0.4836

**2. Model with Initializer as random uniform and zero**

acc: 0.4778

val\_loss: 1.4532

val\_acc: 0.4730

**3. Model with weights as ones**

acc: 0.1000

val\_loss: 14.5063

val\_acc: 0.1000

**4. Model initialized with constant values**

acc: 0.0972

val\_loss: 2.3026

val\_acc: 0.1000

**5. RandomNormal**

acc: 0.4755

val\_loss: 1.5139

val\_acc: 0.4596

**6. RandomUniform**

acc: 0.4731

val\_loss: 1.4724

val\_acc: 0.4716

**7. TruncatedNormal**

acc: 0.4783

val\_loss: 1.4608

val\_acc: 0.4742

**8. VarianceScaling**

acc: 0.4823

val\_loss: 1.4784

val\_acc: 0.4768

**9. Orthogonal**

acc: 0.4712

val\_loss: 1.5070

val\_acc: 0.4588

**10. Identity**

acc: 0.2515

val\_loss: 1.9556

val\_acc: 0.2495

**11. lecun\_uniform**

acc: 0.4746

val\_loss: 1.4608

val\_acc: 0.4791

**12. glorot\_normal**

acc: 0.4791

val\_loss: 1.4557

val\_acc: 0.4781

**13. glorot\_uniform**

acc: 0.4777

val\_loss: 1.4516

val\_acc: 0.4884

**14. he\_normal**

acc: 0.4774

val\_loss: 1.4554

val\_acc: 0.4820

**15. lecun\_normal**

acc: 0.4836

val\_loss: 1.4910

val\_acc: 0.4593

**16. he\_uniform**

acc: 0.4754

val\_loss: 1.4812

val\_acc: 0.4697

Conclusion :

After doing this experiment we observe that the best optimiser for this dataset is **glorot\_uniform** and the least optimal onem being **Model with weights** as ones and **Model with weights as ones**.