

1

Live Panel and Q/A April 24 (Wed)





8B model parameters ∞ meta-llama/Meta-Llama-3-8B □ ♥ like 2.08k • # of Layers = 32 『 main ∨ Meta-Llama-3-8B / original / params.json □ pcuenq HFSTAFF Upload original checkpoint (#1) # of Attention Heads = ⟨→ raw ⑤ history ⊙ blame ∠ contribute ☐ delete ⊘ No virus • # of Vocabulary Words = _____ "dim": 4096, "n_layers": 32, • # of Feature Dimensions = _____ "n_heads": 32, "n_kv_heads": 8, "vocab_size": 128256, • # of Hidden Dimensions = _____ "multiple_of": 1024, "ffn_dim_multiplier": 1.3, • Context Window Size = _ 8 K "norm_eps": 1e-05, "rope_theta": 500000.0 Al by Hand 🚣 2024 © Tom Yeh

```
Llama
```

3

```
35 ∨ class Llama:
     36
                  @staticmethod
     37 🗸
                  def build(
                       ckpt_dir: str,
     38
                       tokenizer_path: str,
     39
                      max_seq_len: int,
     40
                       max_batch_size: int,
     41
                       model_parallel_size: Or
     42
                       seed: int = 1,
     43
                   ) -> "Llama":
     44
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```


5

```
Self Attention
  90 ✓ class Attention(nn.Module):
              def __init__(self, args: ModelArgs):
  91 🗸
                  super().__init__()
  92
                  self.n_kv_heads = args.n_heads if args.n_k
  93
                  model_parallel_size = fs_init.get_model_pa
  94
                  self.n_local_heads = args.n_heads // model
  95
                  self.n_local_kv_heads = self.n_kv_heads //
  97
                  self.n_rep = self.n_local_heads // self.n_
                  self.head_dim = args.dim // args.n_heads
  98
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```

Feed Forward class FeedForward(nn.Module): 193 🗸 def __init__(194 🗸 195 self, 196 dim: int, hidden_dim int, 197 multiple_of: int, 198 ffn_dim_multiplier: Optio 199): 200 Al by Hand 🚣 2024 © Tom Yeh

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