# Q2. Comparative Analysis: Scikit-learn vs TensorFlow

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| Aspect | Scikit-learn | TensorFlow |
| Target Applications | Designed for classical machine learning algorithms such as regression, classification, clustering, and dimensionality reduction. | Geared towards deep learning and neural network models, including CNNs, RNNs, and large-scale AI systems. |
| Ease of Use for Beginners | Easier to learn and use, with simple APIs and quick model training; ideal for newcomers to ML. | Steeper learning curve, especially when building and tuning complex neural networks. |
| Community Support | Strong community with extensive documentation for traditional ML; widely used in academia and small-scale projects. | Very large and active community, backed by Google; abundant resources, tutorials, and integration with production tools. |

## Summary:

• Use Scikit-learn for traditional ML tasks and simplicity.  
• Use TensorFlow for deep learning and large-scale AI applications.