Here we have used, 1)

Other transfer learning models use 2)

When using the Keras Tuner, there are two main approaches to get the best model architecture and hyperparameters:

1. Use tuner.search() to search for the best model architecture and hyperparameters and then call tuner.get\_best\_models() to retrieve the best model(s). This approach returns the actual best model(s) that can be trained and evaluated directly.
2. Use tuner.search() to search for the best hyperparameters only and then use tuner.get\_best\_hyperparameters() to retrieve the best hyperparameters. This approach returns a dictionary of the best hyperparameters which can be used to define and train a new model.

The difference between these two approaches is that the first approach returns the actual best model(s) that have been trained and evaluated, while the second approach returns only the best hyperparameters that have been found during the search process. This means that with the second approach, you need to define and train a new model using the best hyperparameters returned by the Keras Tuner, while with the first approach you can use the best model(s) directly.

In general, the second approach can be useful if you want more control over the model architecture or if you want to use a specific model architecture that is not available in the Keras Tuner.