# Lecture No. 1

Keywords:

- Fine tuning
- RAG models
- Large language model
- Colab and GPU
- Transformers, datasets, torch, TRL p, Hugging Face
- Lura config, training arguments
- Model training, saving, validation
- Inference, accuracy

1. What are we talking about in this video?

- The video is about using fine tuning to improve RAG models.

2. What is the first thing you need to do to use GPU in Colab?

- Go to runtime and change the run type to include the T4 GPU.

3. What are the essential tools you need to install in Colab for fine tuning?

- Transformers, datasets, torch, TRL p, and Hugging Face.

4. How can you check the resources in Colab?

- You can check the GPU RAM, system RAM, and disk size.

5. What did the speaker do after loading the model and tokenizer?

- They defined the training arguments, including setting the number of epochs, batch size, evaluation range, and learning rate.

6. How does the speaker describe the results of the model training?

- They mention that the training and validation losses were decreasing with time.

7. What did the speaker do to improve the accuracy of the model?

- They increased the number of epochs and trained on a higher number of epochs (200).

8. What was the result after retraining the model with higher epochs?

- The accuracy of the model improved, and it provided a better answer related to yoga phil osophy.