Scalability Discussion: Vision-Language Model Fine-Tuning

1. E	Dataset	Manac	rement
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- Storing datasets in efficient formats like parquet and utilizing cloud storage like AWS S3
- Using multi-threaded pytorch's DataLoader with n_workers

2. Distributed Training

- Employ multi-GPU setups with DistributedDataParallel (DDP) or Hugging Face Accelerate.

3. Model Checkpoint

- Saving and managing checkpoints of models to preventing loss of progress.

4. Deployment Considerations

- Optimize models using ONNX or TensorRT for reduced inference latency.
- Use Docker/Kubernetes for scalable deployment on cloud platforms (AWS, GCP, Azure)