

Parallel Programming - 22KHMT

Plan and work distribution

Group: **06**

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Plan and work distribution

Start	End	Task	Owner
24/11/2025	30/11/2025	- Problem Statement, CIFAR-10 overview, Autoencoder architecture.	Chu Thúy Quỳnh
		- Implement Conv2D, ReLU, MaxPool, Upsample, MSE Loss.	Trần Dịu Huyền
		- Weight initialization, forward pass, backward pass, save/load weights	Trần Dịu Huyền
		- Implement CIFAR-10 Dataset class, binary parsing, normalization, batching, shuffling. - Train CPU baseline for 20 epochs, record time & loss.	Đặng Châu Anh
01/12/2025	7/12/2025	- GPU Memory Management.	Chu Thúy Quỳnh
		- Implement: Convolution, ReLU, MaxPooling, Upsampling, MSE Loss.	Chu Thúy Quỳnh
		- Complete full forward pass on GPU.	Đặng Châu Anh
		- Implement gradient kernels + SGD weight update.	Đặng Châu Anh
8/12/2025	14/12/2025	- Set up loss/time logging for GPU training.	Trần Dịu Huyền
		- Write report phase 1.	Trần Dịu Huyền
		- Try to apply 2–3 optimizations and and choose the most effective method.	Đặng Châu Anh Trần Dịu Huyền
		- Extract latent vectors, train SVM, compute accuracy. - Write report phase 2.	Chu Thúy Quỳnh
15/12/2025	17/12/2025	- Comprehensive Performance Analysis.	Đặng Châu Anh
		- Write report phase 3.	Đặng Châu Anh
		- Lessons Learned and Challenges Overcome. - Write report phase 4.	Chu Thúy Quỳnh

		<ul style="list-style-type: none"> - Conclusion and Future Work. - Write README.md 	Trần Diệu Huyền
18/12/2025	20/12/2025	<ul style="list-style-type: none"> - Combine all modules, format file. - Video. - Slide. 	All members