

Parallel Programming - 22KHMT

Plan and work distribution

Group: 06

- 22127008 - Đặng Châu Anh
- 22127170 - Trần Dịu Huyền
- 22127359 - Chu Thúy Quỳnh

Plan and work distribution

Start	End	Task	Owner
24/11/2025	30/11/2025	<ul style="list-style-type: none">- Problem Statement, CIFAR-10 overview, Autoencoder architecture.- Implement Conv2D, ReLU, MaxPool, Upsample, MSE Loss.- Weight initialization, forward pass, backward pass, save/load weights- Implement CIFAR-10 Dataset class, binary parsing, normalization, batching, shuffling.- Train CPU baseline for 20 epochs, record time & loss.	Chu Thúy Quỳnh
01/12/2025	7/12/2025	<ul style="list-style-type: none">- GPU Memory Management.- Implement: Convolution, ReLU, MaxPooling, Upsampling, MSE Loss.- Complete full forward pass on GPU.- Implement gradient kernels + SGD weight update.- Set up loss/time logging for GPU training.- Write report phase 1.	Trần Dịu Huyền
8/12/2025	14/12/2025	<ul style="list-style-type: none">- Try to apply 2–3 optimizations and choose the most effective method.- Extract latent vectors, train SVM, compute accuracy.- Write report phase 2.	Đặng Châu Anh Trần Dịu Huyền
15/12/2025	17/12/2025	<ul style="list-style-type: none">- Comprehensive Performance Analysis.- Write report phase 3.- 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 Dịu Huyền
18/12/2025	20/12/2025	<ul style="list-style-type: none">- Combine all modules, format file.- Video.- Slide.	All members