



# Final Project

NYU K12 STEM Education: Machine Learning

Department of Electrical and Computer Engineering,  
NYU Tandon School of Engineering  
Brooklyn, New York

- ▶ [Course Website](#)
- ▶ Instructors:



Rugved Mhatre  
[rugved.mhatre@nyu.edu](mailto:rugved.mhatre@nyu.edu)



Akshath Mahajan  
[akshathmahajan@nyu.edu](mailto:akshathmahajan@nyu.edu)

- ▶ Task: CIFAR-10 Dataset Image classification

- ▶ Task: CIFAR-10 Dataset Image classification
- ▶ Simplification: No validation. You can directly tune your network based on the test set accuracy.

- ▶ Task: CIFAR-10 Dataset Image classification
- ▶ Simplification: No validation. You can directly tune your network based on the test set accuracy.
- ▶ Friday: Present your model performance

- ▶ Task: CIFAR-10 Dataset Image classification
- ▶ Simplification: No validation. You can directly tune your network based on the test set accuracy.
- ▶ Friday: Present your model performance
- ▶ Each team should present for 12-15 minutes

## Presentation Template

- ▶ Slide 1: Title and introduction
- ▶ Slide 2: Introduce your project: dataset, labels, etc
- ▶ Slide 3: Your network architecture
- ▶ Slide 4: Other hyper-parameters, e.g.
  - ▶ optimizer, learning-rate
  - ▶ batch size, epochs
  - ▶ data augmentation, transformation
- ▶ Slide 5: Model performance on training set (loss) and test set
  - ▶ Training Loss
  - ▶ Test accuracy total
  - ▶ Test accuracy for each class
- ▶ Slide 6: Challenges and how you resolve them
- ▶ Slide 7: Conclusion