

Homework 07



Zahra Amini
Filoger Deep Learning

Topic: Classification on SVHN

Point: 2600, Optional

Deadline: 1403-05-15, 12(noon)

روی مجموعه داده های

Street View House Numbers (SVHN)

کلاسیفیکیشن را انجام دهید.

Hint:

	Model	Number of Epochs	Batch Normalization	Key Techniques	Patch Size	Number of Layers (Depth)	Hidden Size	Attention Heads	Batch Size	Learning Rate	Weight Decay	Dropout	Accuracy (%)
0	ViT	100 to 300	Not used	Data Augmentation, AdamW Optimizer	16x16 or 32x32	12 to 24	768 or 1024	12 to 16	-	0.0001 to 0.001	-	-	96% to 98%
1	ResNet	200 to 300	Used	Skip Connections, Stochastic Depth, Data Augme...	-	18 to 110	-	-	32 or 64	0.1 (with decay)	0.0001	-	96% to 97.5%
2	VGG	100 to 200	Used in newer versions	Dropout, Max Pooling, Data Augmentation	-	16 or 19	-	-	32 to 128	0.01 (with decay)	-	0.5 to 0.7	95% to 96%