ő The Erdős Institute

Deep Learning

Spring 2024 Schedule

Week	Deep Learning Fundamentals	Learning PyTorch
Week 1	**What is Deep Learning?** fastbook ch. 1	**PyTorch Overview & Tensors** PyTorch ch. 1-4
Week 2	**Deep Learning Basics** fastbook ch. 4	**Deep Learning Basics** PyTorch ch. 5
Week 3	*n/a*	**Neural Networks** PyTorch ch. 6
Week 4	**Classification & Regression** fastbook ch. 5 & 6	*n/a*
Week 5	**Recommender Systems & Tabular Modeling** fastbook ch. 8 & 9	*n/a*
Week 6	**Computer Vision 1: Image Preprocessing** fastbook ch. 7	**Computer Vision 1: Images** PyTorch ch. 7
Week 7	**Computer Vision 2: CNNs** fastbook ch. 13	**Computer Vision 2: CNNs** PyTorch ch. 8
Week 8	**Computer Vision 3: ResNet** fastbook ch. 14	**Computer Vision 3: CT scans** PyTorch ch. 9
Week 9	**NLP 1: Text Preprocessing** fastbook ch. 10	*n/a*
Week 10	**NLP 2: RNNs** fastbook ch. 12	*n/a*
Week 11	**NLP 3: Transformers** details in GitHub	*n/a*
Week 12	**Productionization** fastbook ch. 2 & 3	**Deployment** PyTorch ch. 15
May 3, 5 PM	**Final Project Due**	