

Deep Learning

Summer 2024 Schedule

| <u>Week</u> | <u>Deep Learning Fundamentals</u> | <u>Learning PyTorch</u> |
|----------------------------------|---|--|
| <i>June 7</i> | Live Zoom Deep Learning Intro! | |
| Week 1 <i>Before June 14</i> | What is Deep Learning? fastbook ch. 1 | PyTorch Overview & Tensors PyTorch ch. 1-4 |
| Week 2 <i>Before June 21</i> | Deep Learning Basics fastbook ch. 4 | Deep Learning Basics PyTorch ch. 5 |
| Week 3 <i>Before June 28</i> | <i>n/a</i> | Neural Networks PyTorch ch. 6 |
| Week 4 <i>Before July 5</i> | Classification & Regression fastbook ch. 5 & 6 | <i>n/a</i> |
| Week 5 <i>Before July 12</i> | Recommender Systems & Tabular Modeling fastbook ch. 8 & 9 | <i>n/a</i> |
| Week 6 <i>Before July 19</i> | Computer Vision 1: Image Preprocessing fastbook ch. 7 | Computer Vision 1: Images PyTorch ch. 7 |
| Week 7 <i>Before July. 26</i> | Computer Vision 2: CNNs fastbook ch. 13 | Computer Vision 2: CNNs PyTorch ch. 8 |
| Week 8 <i>Before Aug. 2</i> | Computer Vision 3: ResNet fastbook ch. 14 | Computer Vision 3: CT scans PyTorch ch. 9 |
| Week 9 <i>Before Aug. 9</i> | NLP 1: Text Preprocessing fastbook ch. 10 | <i>n/a</i> |
| Week 10 <i>Before Aug. 16</i> | NLP 2: RNNs fastbook ch. 12 | <i>n/a</i> |
| Week 11 <i>Before Aug. 23</i> | NLP 3: Transformers details in GitHub | <i>n/a</i> |
| Week 12 <i>Before Aug. 30</i> | Productionization fastbook ch. 2 & 3 | Deployment PyTorch ch. 15 |
| <i>August 30, 5 PM</i> | Final Project Due | |