

A Crash Course in Practical ML

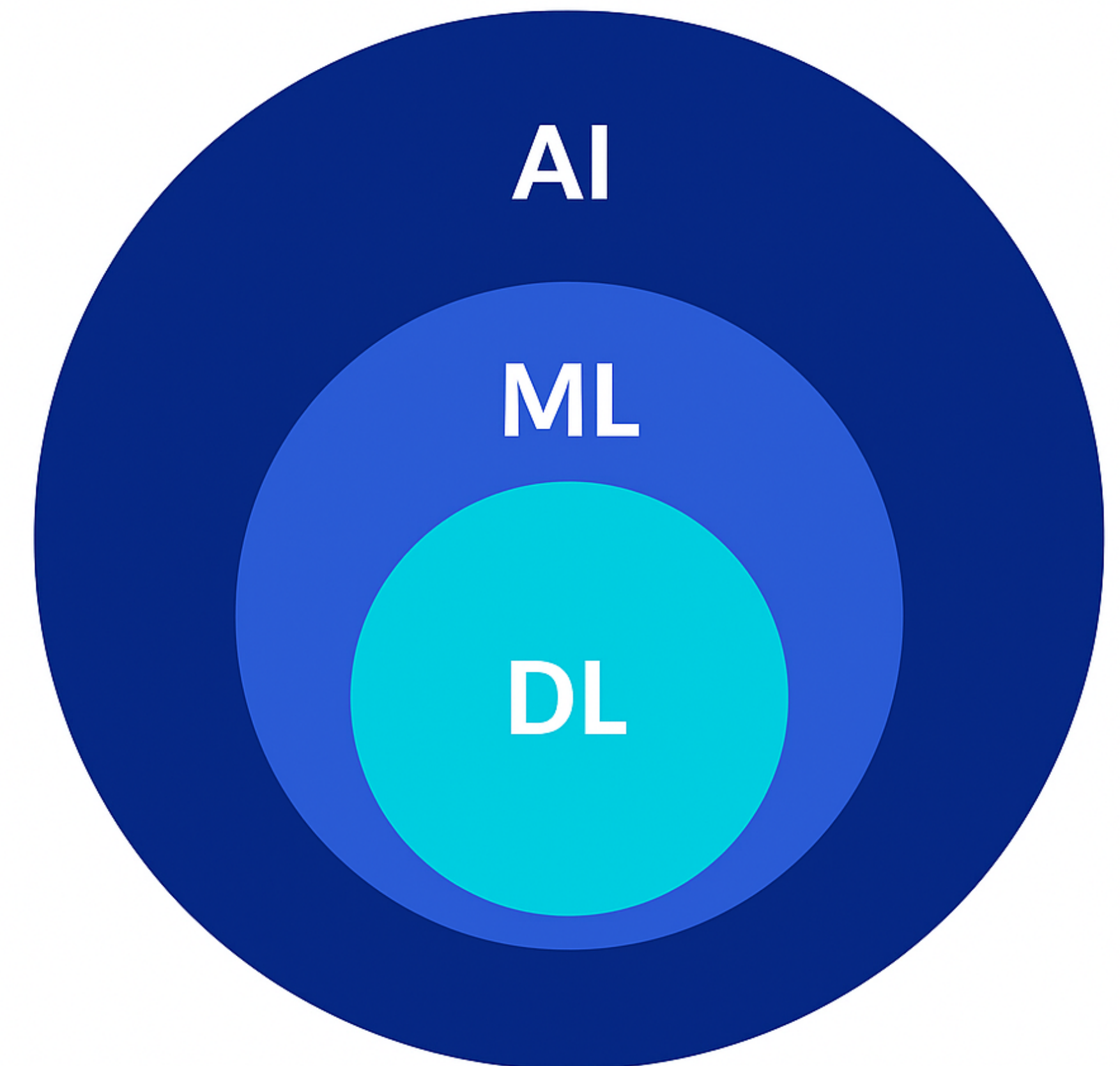
Day 3: Deep Learning Architectures

Gage DeZoort | October 29th, 2025

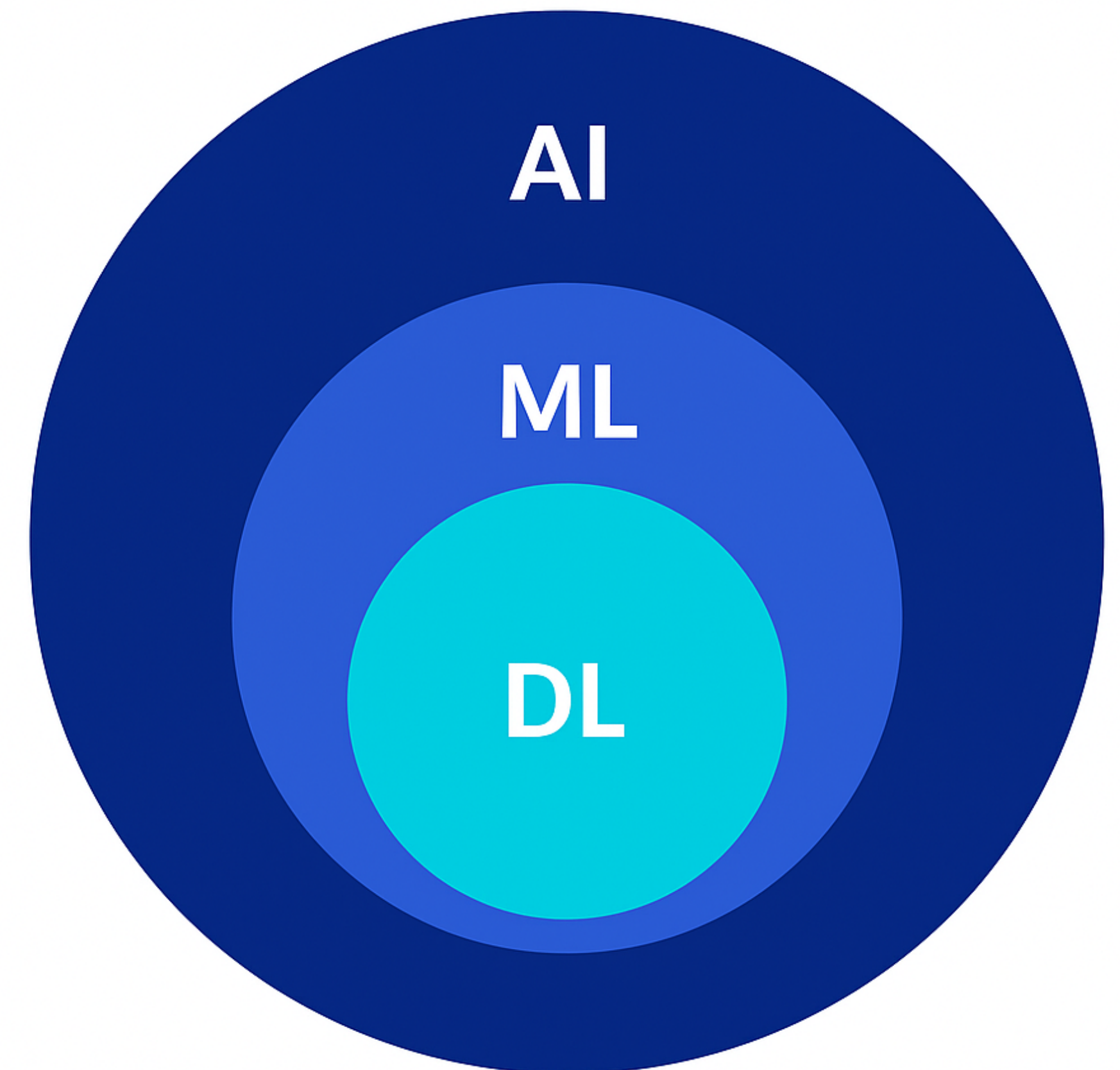
Course Timeline

- ~~Day 1 (10/27, 5pm, ISEB 1010):~~
 - ~~- Linear regression, linear classification, clustering with K-means, clustering with DBScan~~
- ~~Day 2 (10/28, 5pm, Rowland Hall 101 + Zoom)~~
 - ~~- Deep learning, introduction to neural networks (NNs)~~
- **Day 3 (10/29, 5pm, ISEB 1010):**
 - Convolutional NNs, Graph NNs, transformers and attention
- All materials will be posted in the course's Git repo:
https://github.com/GageDeZoort/intro_ml_uci/tree/main

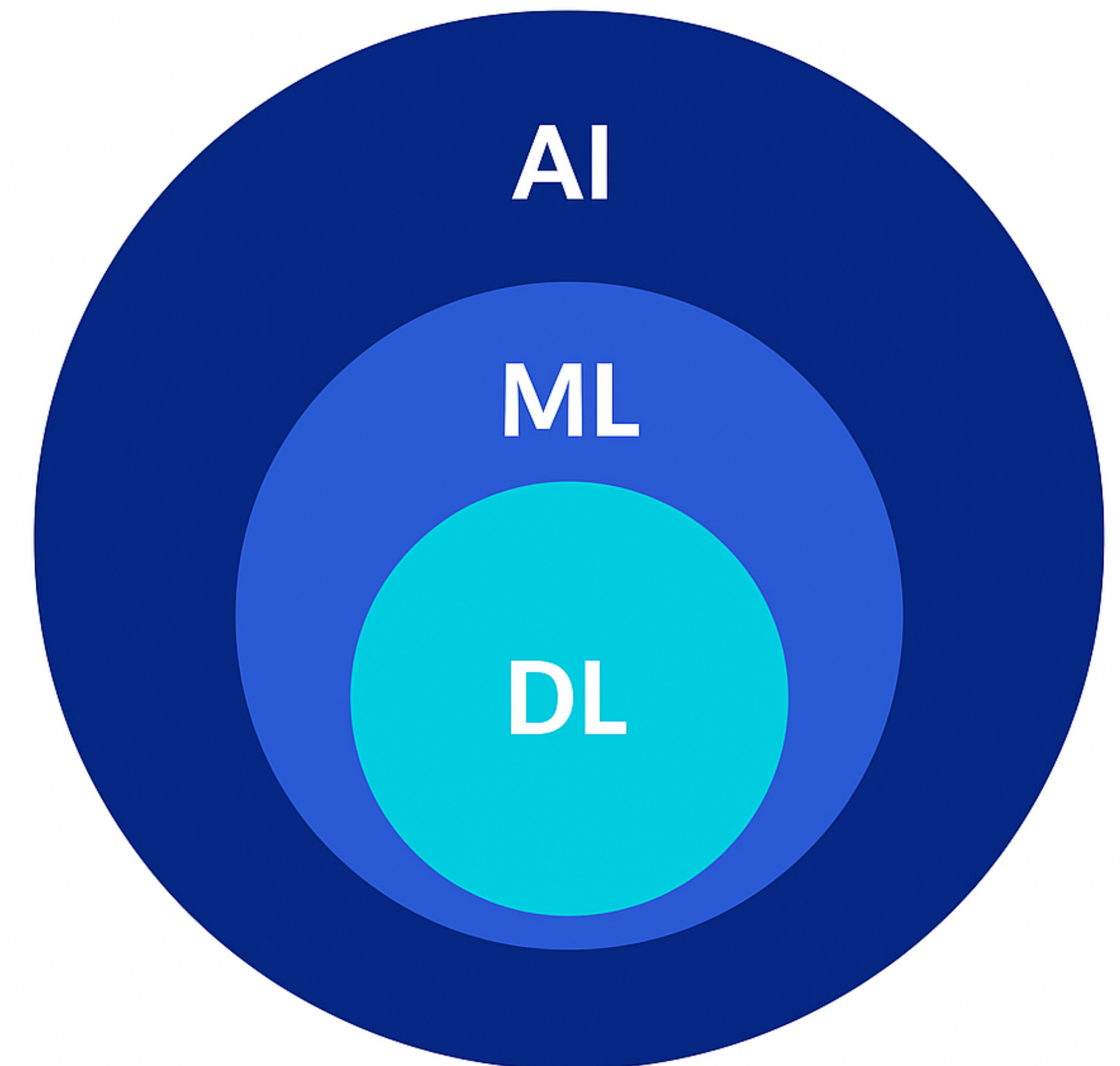
Artificial intelligence (AI), the broad endeavor to build systems that reason, plan, perceive, problem-solve, navigate etc.



Machine Learning (ML), algorithms that *learn* (without explicit programming) to model relationships in data and use them to make predictions



Deep Learning (DL), algorithms based on deep neural networks (NNs)





[https://github.com/GageDeZoort/intro ml uci/tree/main](https://github.com/GageDeZoort/intro_ml_uci/tree/main)



<https://forms.gle/LkdoN6efcsR1qqDw6>