Course Outline

705:605 Creating Al-Enabled Systems

This outline provides an overview of the course and assignments by week. Please remember to check the calendar for specific due dates.

Each course module runs for a period of seven (7) days, i.e., one week.

Module	Dates	Module Title	Assignments
Module 1	Mon 01/24/22 - Sun 01/30/22	Al Overview & Case Studies	Discussion 1
Module 2	Mon 01/31/22 - Sun 02/06/22	6D Framework & Design Thinking	Discussion 2Assignment 1
Module 3	Mon 02/07/22 - Sun 02/13/22	Data Engineering Computer Vision and Time Series	Discussion 3Assignment 2
Module 4	Mon 02/14/22 - Sun 02/20/22	Data Engineering for Unstructured Text	Discussion 4Assignment 3Research Proposal (Not Graded)
Module 5	Mon 02/21/22 - Sun 02/27/22	Data Engineering for Categorical Data	Discussion 5Assignment 4
Module 6	Mon 02/28/22 - Sun 03/06/22	Data Storage	Assignment 5
Module 7	Mon 03/07/22 - Sun 03/13/22	Design Supervised Algorithms Part I	Discussion 6Research Paper Draft
Module 8	Mon 03/14/22 - Sun 03/20/22	Design Supervised Algorithms Part II	Discussion 7Assignment 6
Break	Mon 03/21/22 - Sun 03/27/22		
Module 9	Mon 03/28/22 - Sun 04/03/22	Design Unsupervised Machine Learning Algorithms	Assignment 7System Project Proposal (Not Graded)
Module 10	Mon 04/04/22 - Sun 04/10/22	Design of Reinforcement Learning Systems and Neuro-Symbolic Systems	Discussion 8 Research Paper
Module 11	Mon 04/11/22 - Sun 04/17/22	Testing, Metrics, and Bias	Discussion 9Assignment 8
Module 12	Mon 04/18/22 - Sun 04/24/22	Ethics in AI	Discussion 10Assignment 9



Module	Dates	Module Title	Assignments
Module 13	Mon 04/25/22 - Sun 05/01/22	Deployment Part 1	Discussion 11Assignment 10
Module 14	Mon 04/25/22 - Sun 05/01/22	Deployment Part 2	System Project Paper

