



CSCE 580: Introduction to AI

Week 8 - Lecture 15: Quiz 2 - In class

PROF. BIPLAV SRIVASTAVA, AI INSTITUTE 7^{TH} OCT 2025

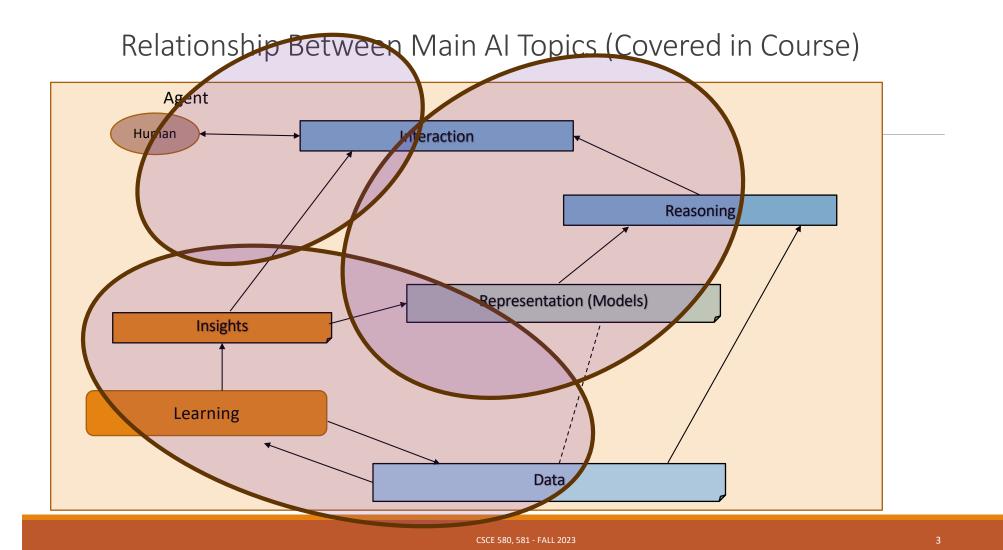
Carolinian Creed: "I will practice personal and academic integrity."

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Organization of Week 7 - Lectures 15

- Introduction Section
 - Recap from Week 7 (Lectures 13 and 14)
- Main Section
 - Quiz 2
- Concluding Section
 - About next week W9: Lectures 16, 17
 - Ask me anything

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Recap of Week 8

We talked about

- First-order logic
- Search based solving
- Examples
- Uninformed search

- Week 1: Introduction, Aim: Chatbot / Intelligence Agent
- Weeks 2-3: Data: Formats, Representation and the <u>Trust Problem</u>
- Week 3: Machine Learning Supervised (Classification)
- Week 4: Machine Learning Unsupervised (Clustering) -
- Topic 5: Learning neural network, deep learning, Adversarial attacks
- Week 6: <u>Large Language Models</u> Representation and Usage issues
- Weeks 7-8: Search, Heuristics Decision Making
- Week 9: Constraints, Optimization Decision Making
- Topic 10: Markov Decision Processes, Hidden Markov models -Decision making
- Topic 11-12: Planning, Reinforcement Learning Sequential decision making
- Week 13: <u>Trustworthy Decision Making</u>: <u>Explanation</u>, Al testing
- Week 14: <u>AI for Real World: Tools, Emerging Standards and Laws;</u>
 Safe AI/ Chatbots

Upcoming Evaluation Milestones

• Projects B: Sep 30 – Nov 20

• Quiz 2: Oct 7

• Quiz 3: Nov 11

• Paper presentation (grad students only): Nov 18

• Finals: Dec 11

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Introduction Section

Main Section

Quiz 2 — In-class

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Lecture 15: Summary

- We discussed
 - Quiz 2

Week 8: Concluding Comments

We discussed about

- Quiz 2
- Fall Break

- Week 1: Introduction, Aim: Chatbot / Intelligence Agent
- Weeks 2-3: Data: Formats, Representation and the <u>Trust Problem</u>
- Week 3: Machine Learning Supervised (Classification)
- Week 4: Machine Learning Unsupervised (Clustering) -
- Topic 5: Learning neural network, deep learning, Adversarial attacks
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Projects B: Sep 30 – Nov 20 (7 weeks; 400 points)

- End date: Thursday, Nov 20
 - Remember to update spreadsheet on data/ time when finished (Column I)
- Choices
 - Given by instructor
 - Defined by student using project-b teamplate; reviewed and approved by instructor

Upcoming Evaluation Milestones

• Projects B: Sep 30 – Nov 20

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About Week 9 – Lectures 16, 17

Week 8 – Lecture 16, 17

- Lecture 16: Informed Search
 - Heuristic search
 - Optimal solutions
- Lecture 17: Local Search

- Week 1: Introduction, Aim: Chatbot / Intelligence Agent
- Weeks 2: Data: Formats, Representation, ML Basics
- Week 3: Machine Learning Supervised (Classification)
- Week 4: Machine Learning Unsupervised (Clustering) –
- Topic 5: Learning neural network, deep learning, <u>Adversarial attacks</u>
- Week 6: <u>Large Language Models</u> Representation and Usage issues
- Weeks 7-8: Search, Heuristics Decision Making
- Week 9: Constraints, Optimization Decision Making
- Topic 10: Markov Decision Processes, Hidden Markov models Decision making
- Topic 11-12: Planning, Reinforcement Learning Sequential decision making
- Week 13: <u>Trustworthy Decision Making</u>: <u>Explanation</u>, AI testing
- Week 14: <u>AI for Real World: Tools, Emerging Standards and Laws;</u>
 <u>Safe AI/ Chatbots</u>

Note: exact schedule changes slightly to accommodate for exams and holidays.