



CSCE 580: Introduction to Al

CSCE 581: Trusted Al

Lectures 28 and 29: Course Project Final Presentations

PROF. BIPLAV SRIVASTAVA, AI INSTITUTE  $5^{TH}$  AND  $7^{TH}$  DEC, 2023

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### Organization of Lectures 28 and 29

- Introduction Segment
  - Recap of Lecture 27
- Main Segment
  - Course Project Presentation
- Concluding Segment
  - Ask me anything

### Introduction Section

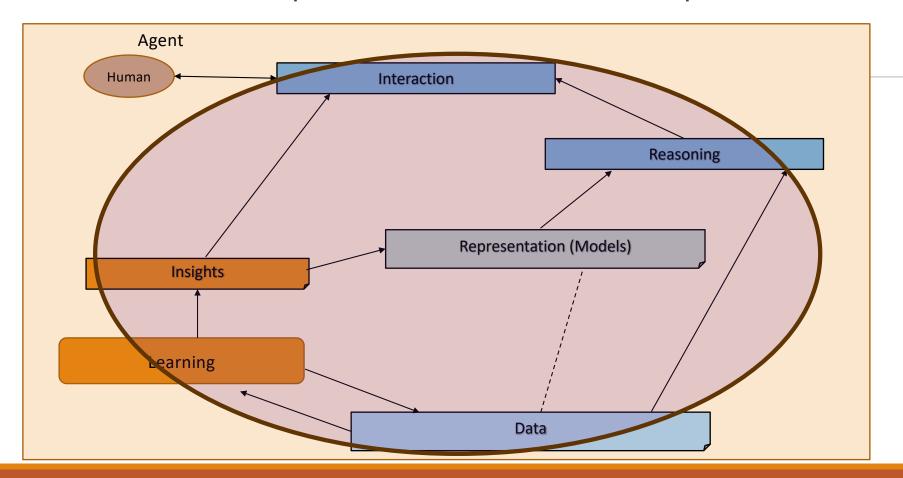
### Recap of Lecture 27

- Topic discussed
  - Real world problems
  - Smart city setting goals for improvement
  - Framework for identifying opportunities to solve problems with AI
  - Case studies in smart city (traffic, public health) and business (Clarity business intelligence, ULTRA team recommendation)

### Intelligent Agent Model



### Relationship Between Main Al Topics



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# Where We Are in the Course

#### CSCE 580/581 - In This Course

- Week 1: Introduction, Aim: Chatbot / Intelligence Agent
- Weeks 2-3: Data: Formats, Representation and the Trust Problem
- Week 4-5: Search, Heuristics Decision Making
- Week 6: Constraints, Optimization Decision Making
- Week 7: Classical Machine Learning Decision Making, Explanation
- Week 8: Machine Learning Classification
- Week 9: Machine Learning Classification Trust Issues and

#### Mitigation Methods

- Topic 10: Learning neural network, deep learning, Adversarial attacks
- Week 11: Large Language Models Representation, Issues
- Topic 12: Markov Decision Processes, Hidden Markov models -

#### Decision making

- Topic 13: Planning, Reinforcement Learning Sequential decision making
- Week 14: Al for Real World: Tools, Emerging Standards and Laws; Safe Al/ Chatbots

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### Main Section

**Credit**: Retrieved from internet

### Reference: Project Rubric - NEW

#### • Project report – 60%

- Project description: problem, related work, approach, evaluation – 40%
- Working system demo/ video 10%
- Well organized Github with code (./data, ./code, ./docs, ./test)
   10%

#### Project presentation – 40%

Evaluation by peers, instructor and TA

#### Bonus

Instructor discretion – 10%

#### Penalty

Lack of timeliness as per announced policy (right) - up to 30%

#### Milestones and Penalties

- •Oct 12, 2023
  - Project checkpoint
  - In-class presentation
  - Penalty: presentation not ready by Oct 10, 2023 [-10%]
- Nov 30, 2023
  - Project report due
  - Project report not ready by date [-10%]
- Dec 5 / 7, 2023
  - In-class presentation
  - Project presentations not ready by Dec 4, 2023 [-10%]

### Evaluation of Project Presentation

- 1. An online form will be available during presentation
- 2. During a presentation, three students will be assigned to review along with instructor and TA
- 3. They will enter following survey questions:
  - 1. Their name
  - 2. Presentation number
  - 3. How useful is the system will you use it? [1-5 scale]
  - 4. How well have you understood the project from the presentation? [1-5 scale]
- Top and bottom scores will be removed. Average of remaining three will be used for final presentation marks

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## Lecture 28 and 29: Summary

- We talked about
  - A wide variety of projects

## **Concluding Section**

### Student Assessment

A = [900-1000]

B+ = [870-899]

B = [800-869]

C+ = [770-799]

C = [700-769]

D+ = [670-699]

D = [600-669]

F = [0-599]

Tests	Undergrad	Grad
Course Project – report, in-class presentation	600	600
Quiz – best of 3 from 4	200	200
Final Exam	200	100
Additional Final Exam – Paper summary, in-class presentation		100
Total	1000 points	1000 points

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### How Final Grade is Calculated

- Each component of assessment is given marks out of 100
- Then overall score is found by weighing as per assessment table
  - Project: (report marks [out of 60] + presentation marks [out of 40] + bonus/ penalty [range: -30,10]) \* 6
     // 60% weightage

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    Quiz: (best of 3) [out of 300] * 2/3  // 20% weightage
    Final marks: * 2  // 20% weightage
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- Graduate: presentation [out of 100] + report [out of 100]
- Undergraduate: participation [out of 50] + report [out of 150]
- Total marks [out of 1000]
- Grade assigned based on previous slide

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