



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

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

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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

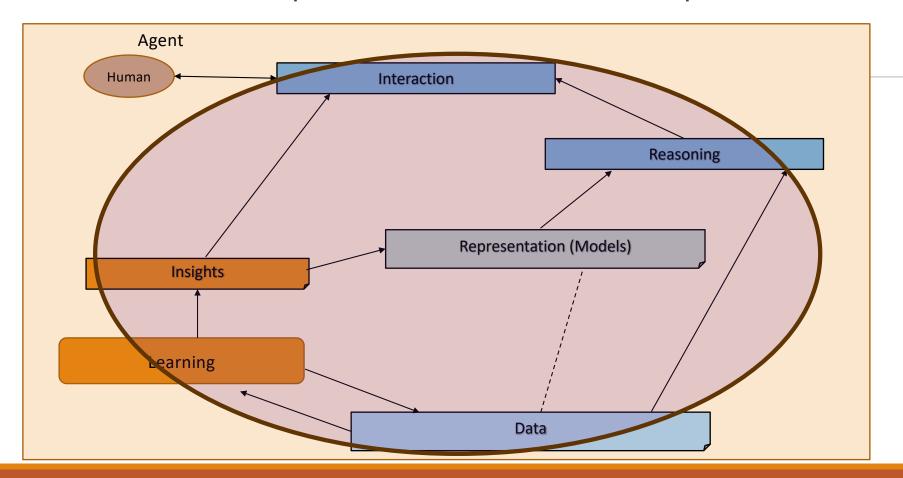
Recap of Lecture 27

- 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

Course Logistics CSCE 580, 581 - FALL 2023 13

How Final Grade is Calculated

- Maximum marks of each component is marked in []
- 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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