

CSCE 581: Introduction to Trusted AI

Week 1 - Lectures 1 and 2: Introduction to AI, Trust and Real-World Applications

PROF. BIPLAV SRIVASTAVA, AI INSTITUTE

13TH AND 15TH JAN 2026

Carolinian Creed: “I will practice personal and academic integrity.”

Credits: Copyrights of all material reused acknowledged

Organization of Lectures 1, 2

- Introduction Section
 - Instructor introduction
- Main Section
 - Lecture 1: AI and Trust
 - AI: A quick introduction
 - (AI) Trust *
 - Expectations survey
 - Discussion: About the course
 - Related Courses: CSCE 580, 590s, 771
 - Course objectives and differentiation
 - Course logistics
 - Lecture 2: Data and Case Studies
 - Data analysis for traffic (South Carolina), Trust
 - Recommendations and Trust [Fairness and Teaming Recommendation]
- Concluding Section
 - About next lecture – Lecture 2
 - Ask me anything



Credit: Dilbert

Introduction Section



BIPLAV SRIVASTAVA

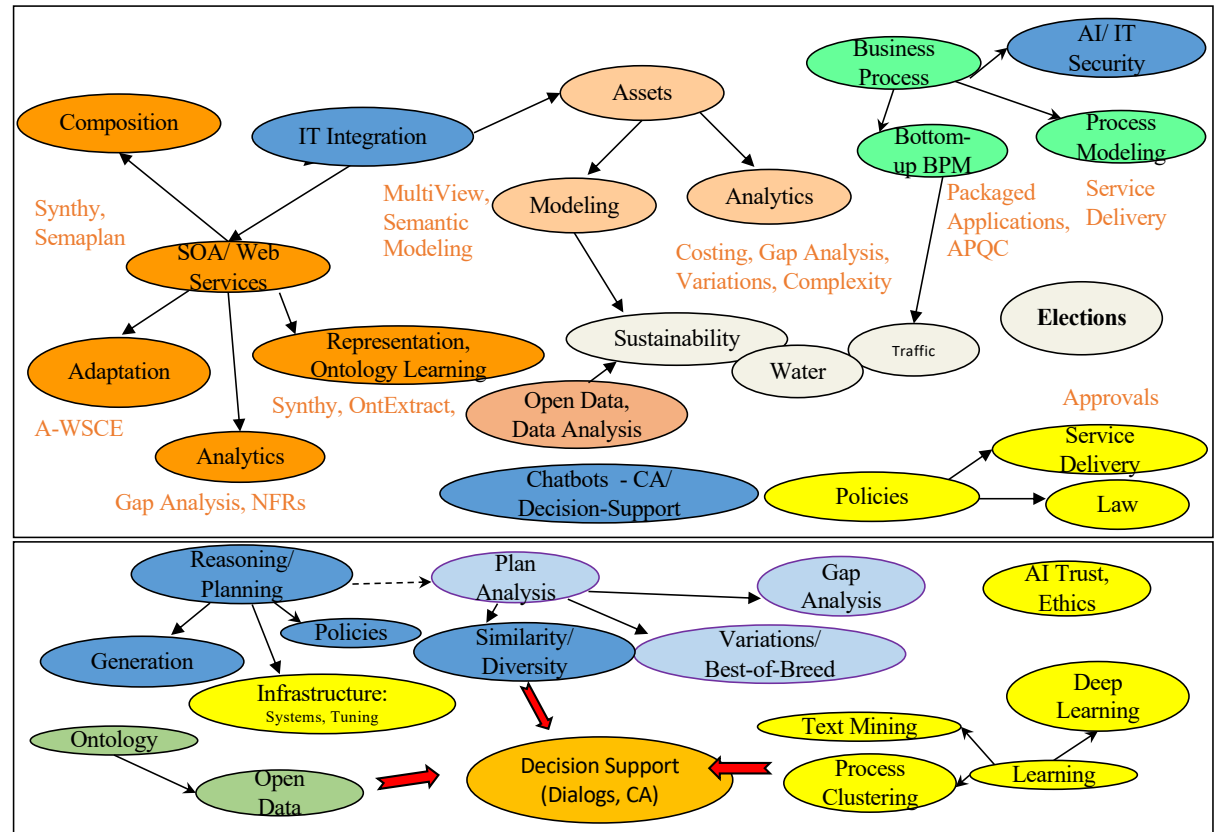
Research Snapshot (1989-2026)

Keywords: AI, Services, Sustainability

Current Research

Focus: **Theory** (Neuro-symbolic), **Usability** (Trust Rating, RCTs), **Smart Cities** (Energy, Water, Health)

The Space of AI Applications Explored

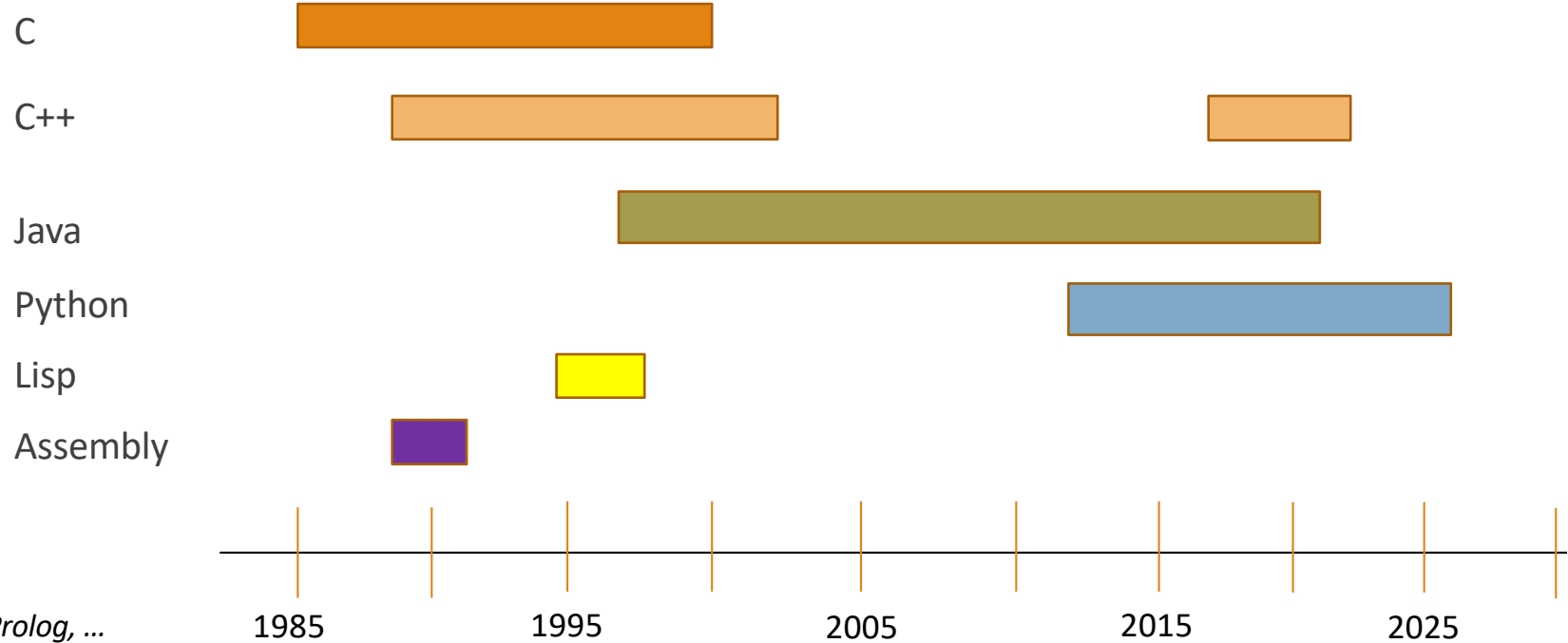


The Space of AI Techniques Used

Details: <https://sites.google.com/site/biplavsrivastava/>
AI4Society Research Group: <https://ai4society.github.io/projects/>

Keywords: AI, Services, Sustainability
Papers: 250+ refereed; 7,200+ references
Patents: 77 (US issued); 4 sole inventions

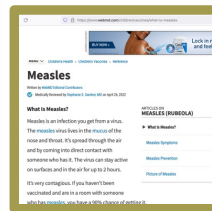
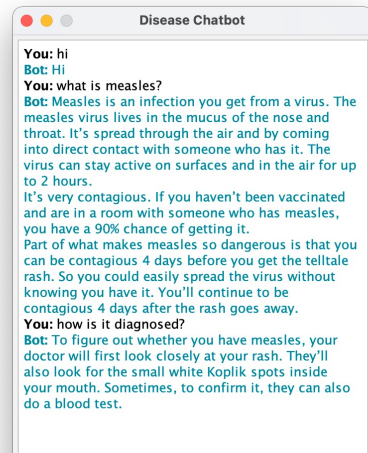
Personal Programming Language Journey* (35+ years)



*Excluded: Javascript, Prolog, ...

Develop a Vibrant Research Culture Around AI

Students building chatbots
in Adv. Prog. Tech. class
in C++, Java and Python
(Elected Reps, Spring 2022;
Diseases, Spring 2023; Finance,
Spring 2024)



WebMD

Thoroughness
in work

Clarity in
communication

Pro-active focus
to complete an
effort

Comfortable
working with
others: social
yet focused

AI/ Chatbots built for: governance (IJCAI 2016, AI Magazine 2024), **astronomy (AAAI 2018 best demo award)**, water (AAAI 2018), smart room (ICAPS 2018 demo runner up, IJCAI 2018), career planning (commercial product), **market intelligence (AAAI 2020 deployed AI award)**, dialogs for information retrieval (ICAPS 2021), fairness assessment (AAAI 2021), computer games (AAAI 2022), generalized planning (IJCAI 2024), **information spread in opinion networks (AAAI 2024 best demo award)**, transportation, set recommendation (**teaming (AAAI 2024 deployed AI award)**, meals) and health.



System Image Credit:

Christine Steege, CSCE240(H), Spring 2023

Classes offered:

Trusted AI (CSCE 581)/ AI (CSCE 580) , Adv. Prog. Tech. (CSCE 240),
Comp. Proc. of Nat. Lang./NLP (CSCE 771)
Special Topics – Open Data, Planning, Chatbots

<https://ai4society.github.io/demos/>

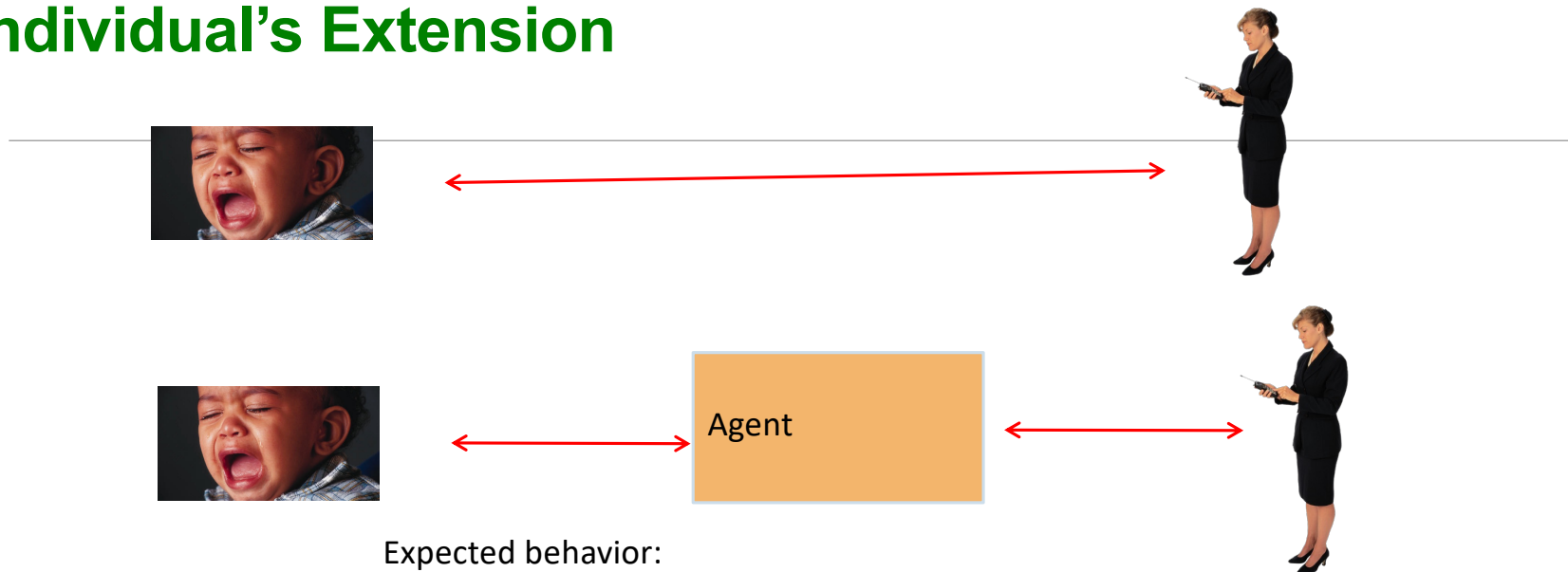
Main Section

AI: A Quick Introduction

Concept: AI

Example: Taking Care of a Baby

Individual's Extension



Expected behavior:

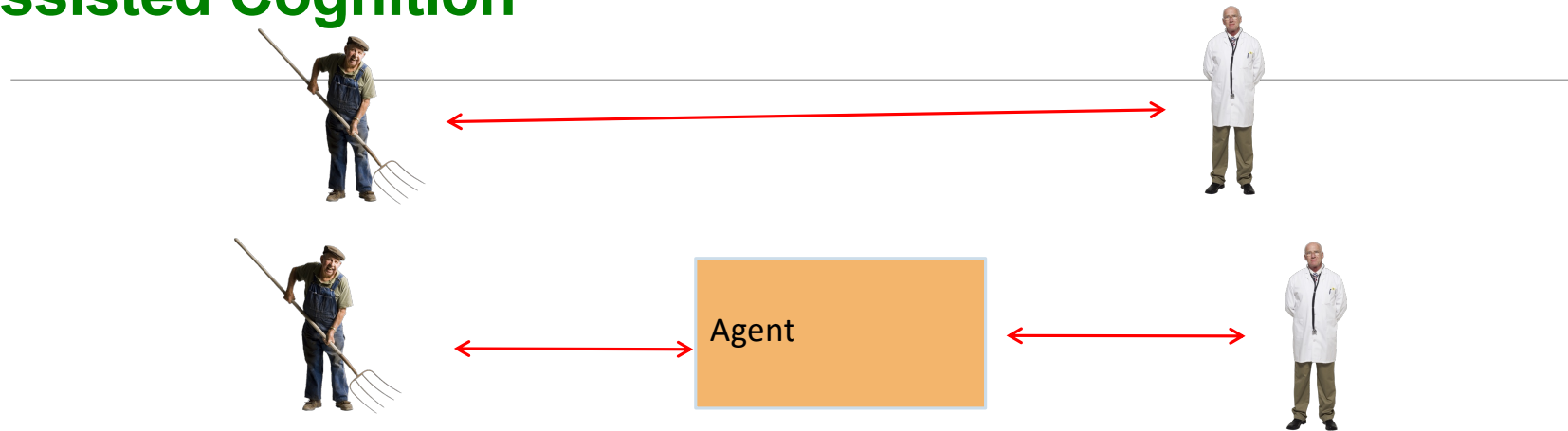
- Inform
 - Alert when crying
 - Alert when awake
 - Alert when idle
- Do
 - Raise temperature of room
 - Play music
 - ...

Conditions can be

- input and **reasoned** (e.g. rule-based methods) OR
- **learned** (from data)

Example: Taking Care of a Senior

Assisted Cognition

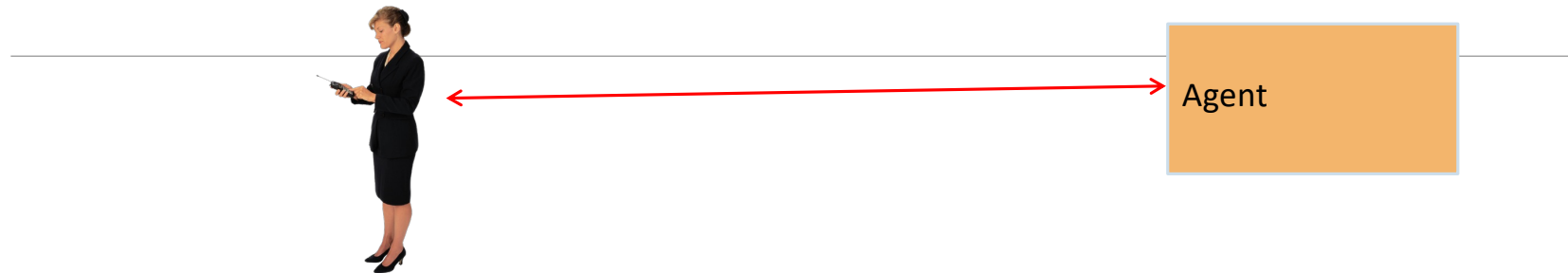


Expected behavior:

- Inform
 - Alert when idle
 - Alert when away from known locations
 - Alert when checkup/ medicines due
- Do
 - Send body parameters periodically
 - ...

Example: Taking Care of Oneself

Personal Digital Assistants

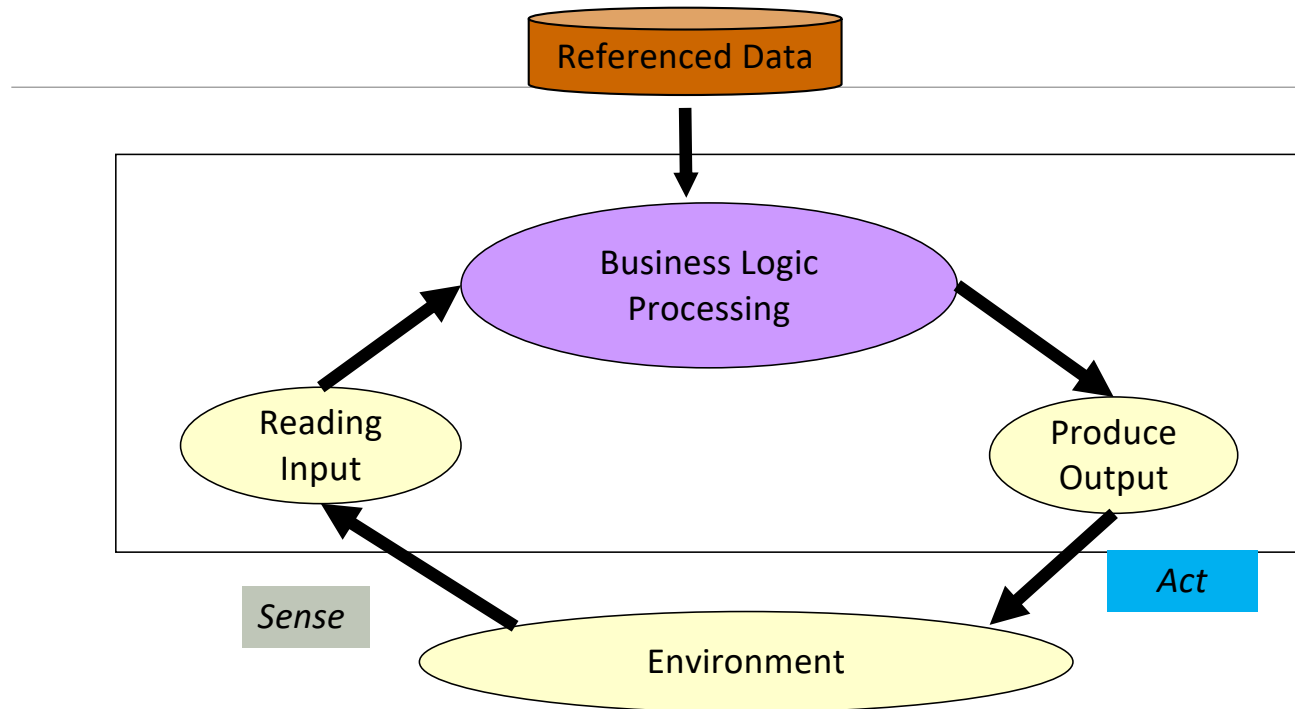


Expected behavior:

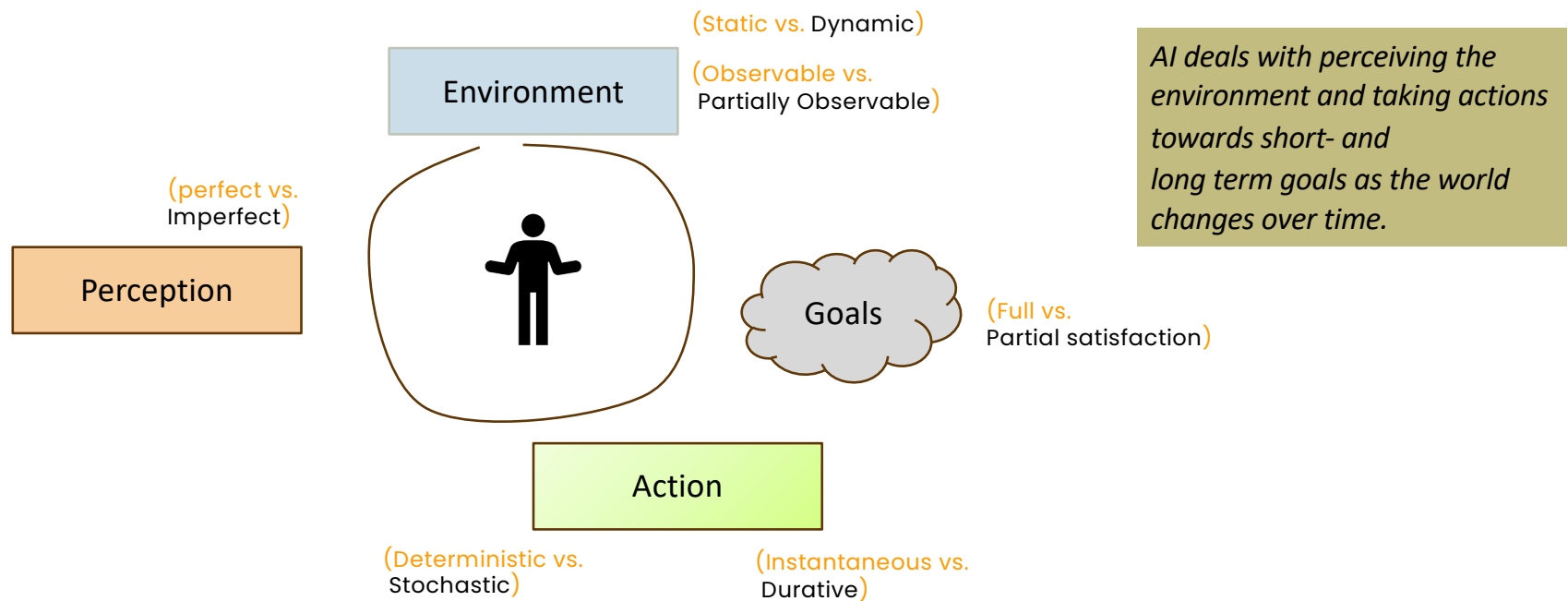
- Inform
 - When missing meetings
 - When missing social commitments
 - Reminding of priorities
 - ...
- Do
 - Make all cancellations / re-bookings when schedule changes
 - Find alternatives to current decisions and give choices (e.g., traffic)
 - ...

AI => Adaptive/ Intelligent Software System

- Business Logic Moves to Declarative Data (policy)
- Software is more resilient to changes in environment



Artificial Intelligence (AI) as an Agent



Example 1: Courses for a Student

- Decision: Student deciding which courses to take for their program
- Data
 - **Public**: About courses
 - **Public**: About faculties
 - **Public**: About job opportunities
 - **Public**: About research opportunities and industry trends
 - **Private**: what the student wants to do
- Analysis
 - Courses offered in different semesters
 - Teachers offering courses – background, hardness of classes, ...

Trust

- Are the insights reliable?
- Do they cause short- or long-term harm?
- Will users adopt the insights?

Thought Exercise – (AI) Class and a Hypothetical AI-based Advisor

- **Good** decisions for students
 - Get good grades, marks
 - Learn
 - ...
- AI-may suggest
 - Give teacher rating
 - *But what about learning?*
- **Good** decisions for instructor
 - Get good rating
 - Finish course
 - Teach long-term skills
 - ...
- AI-may suggest
 - Give student grades
 - *But what about teaching?*

Trust

- Are the insights reliable?
- Do they cause short- or long-term harm?
- Will users adopt the insights?

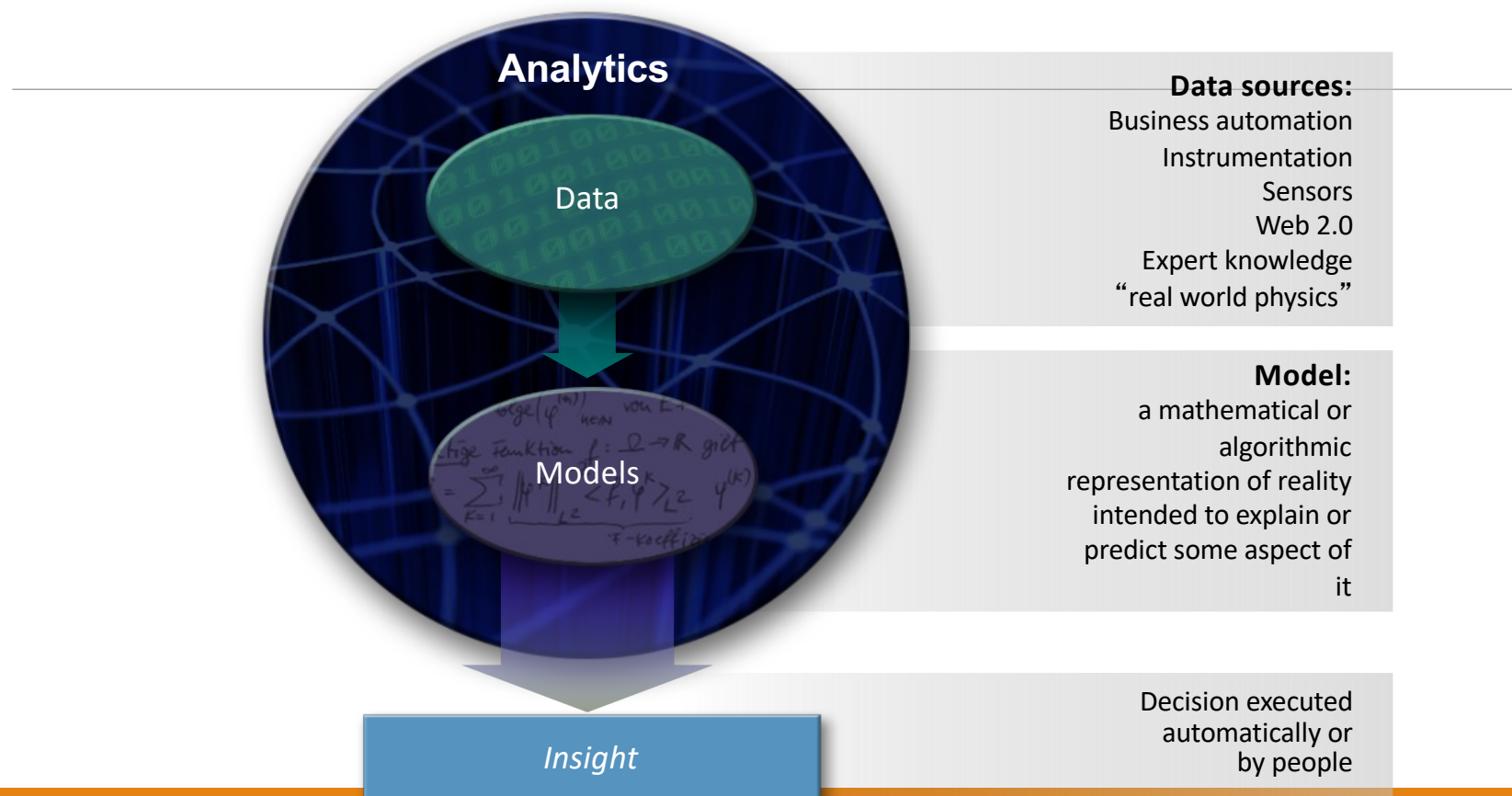
Example 2: Health During a Pandemic

- Decision: Individual staying healthy during a pandemic like COVID19
- Data
 - **Public:** About disease, cases, deaths, variants
 - **Public:** About mitigation steps: e.g., mask wearing restrictions and practices, lockdowns, hospital conditions
 - **Private:** pre-existing health conditions
- Analysis
 - Regions with high and low cases
 - Whether to eat inside a restaurant?
 - How to make an urgent road trip ?
 - How to hold classes at a University?

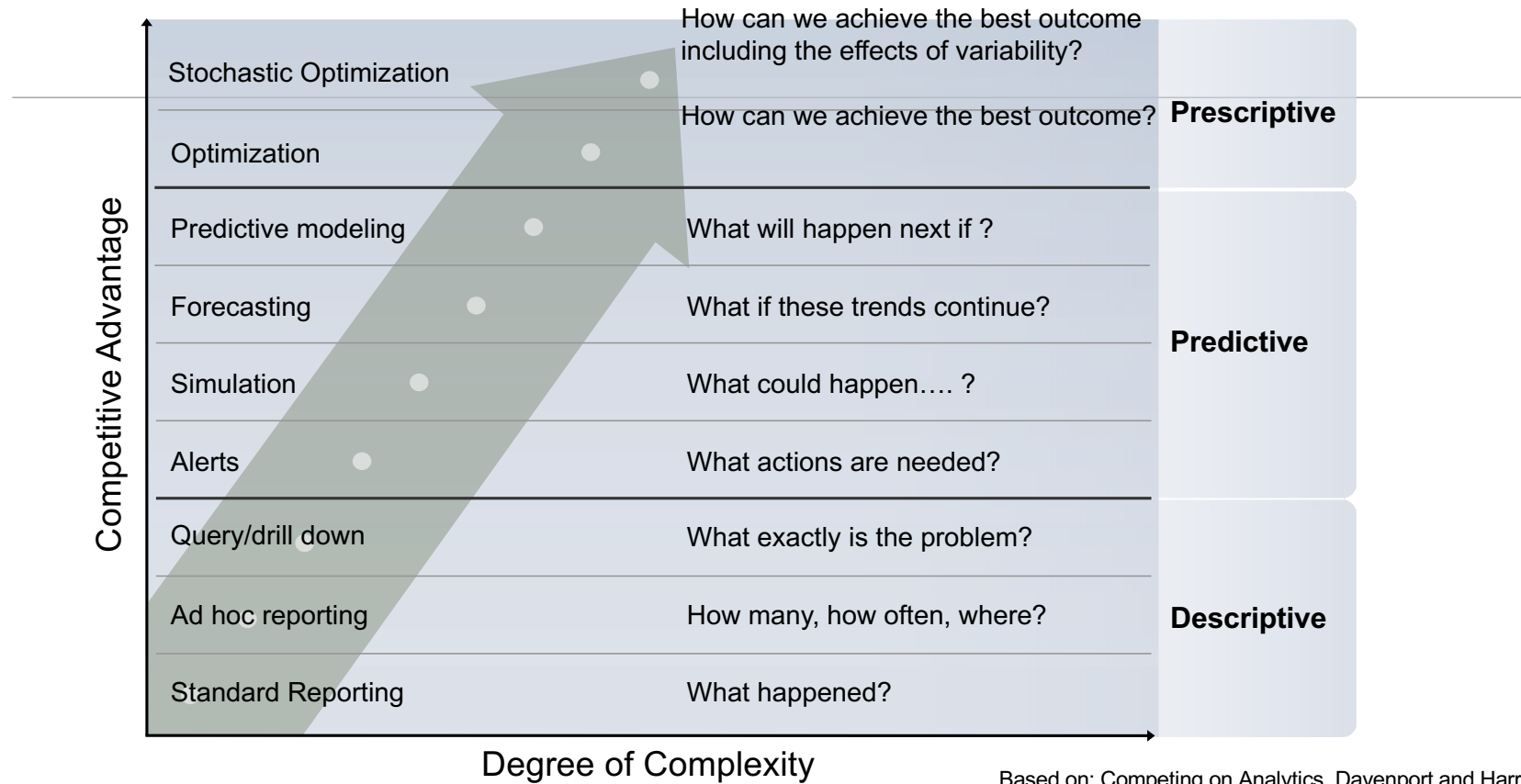
Trust

- Are the insights reliable?
- Do they cause short- or long-term harm?
- Will users adopt the insights?

Advanced AI Techniques (**Analytics**) like Reasoning (**Symbolic**) & Machine Learning (**Neural**)
make use of data and models to provide insight to guide decisions



Analytics Landscape



Based on: Competing on Analytics, Davenport and Harris, 2007

History of Chatbots is the History of AI

Credit: https://en.wikipedia.org/wiki/Turing_test

1950 - Turing test

“which player – A or B – is a computer and which is a human.”

1964-66 – Eliza

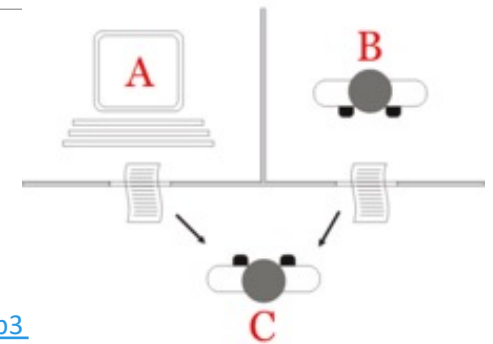
computerized Rogarian psychotherapist

<https://en.wikipedia.org/wiki/ELIZA>, <http://www.manifestation.com/neurotoys/eliza.php3>

2011 – IBM Watson

question answering in a game setting

Today – Amazon Alexa, Google Echo, Apple Siri, ...



Credit: https://en.wikipedia.org/wiki/IBM_Watson

Trust, Trustworthiness and Trusted-AI

Trust Scenario



Alan – wants to give money

Trust Scenario



Alan – wants to give money

- Could be first time or regular
- Wants to be effective and efficient

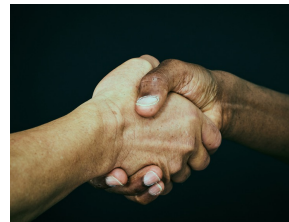
Decisions:

- Whom to give
- How much to give
- When to give

Trust Scenario



Alan – wants to give money



Trust Scenario



Alan – wants to give money

What decisions should be made by Alan?

Candidates

- Want money
 - May be more needy (or effective) than others
 - May be more efficient (less wasteful) than others in using it
- May change behavior after receiving donation
- May use money in different ways than promised

A Lesson in Trust

Weather alerts and Closing campus, Canceling classes

- Event order and response by actors // Choice 1 (Actual): Trustable ??
 - Alert1 -> Close campus -> Cancel class
 - Alert2 -> Unclose (Open) campus -> Uncancel (Normal) class
 - Alert3 -> Close campus -> Cancel class
 - ...
- Event order and response by actors // Choice 2: A more trustable way ??
 - Alert1 -> Close campus -> Online class (or recorded) OR CANCEL class
 - Alert2 -> Unclose (Open) campus -> No Change
 - Alert3 -> Close campus -> No Change
 - ...
- Which one would you have preferred, and WHY?

Why is Ethics Even an Issue with AI?

- When a technology works with humans and relates to inter-personal issues, the question of ethics comes into picture
- Examples: donations/ organs, medicine (opiods), food (genetically modified)

Discussion: what, if any issue,

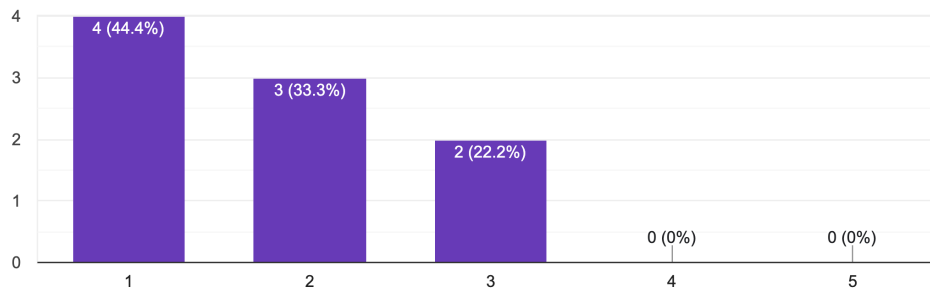
- in recommending courses to students?
- in finding treatment for Covid?

Expectations Survey

- 9/15 = 60% response rate as of 6:45pm on Jan 12, 2026.
- AI background (1-5 scale):

I (instructor) want to know how good your background in AI is. Enter on a scale of 1-5 (5 highest). If this is your first course (e.g., not taken a course like Pattern Recognition before), please enter between 1-2.

9 responses



Main thing to learn

- How to use AI for future jobs
- Nothing in particular, I just want more general knowledge about AI
- the history and development of AI models
- Evaluate AI systems for transparency, fairness, and accountability
- I'm unsure, I just want a better general understanding of AI
- Understanding neural networks and how decisions are made.
- How AI is used in decision making
- How AI models validate their findings to be true or trustworthy.
- Creating less bias and safe AI for people.

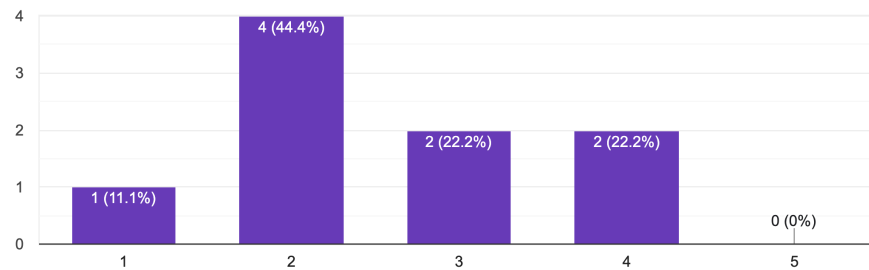
AI problems of interest

- AI for entity behavior and pathfinding in video games
- No clue, I've done some outside AI courses, but this will be my first in a university setting, so I have no clue.
- Past AI models using propositional logic instead of probabilistic prediction (mentioned by a previous professor, sounded interesting)
- decision making process
- optimization
- Decision making under uncertainty and optimization
- Sports and fashion and arts
- Decision making under uncertainty would be interesting to learn about.
- Decision Making Uncertainty, Bias, and Security regarding LLMs.

Expectations Survey

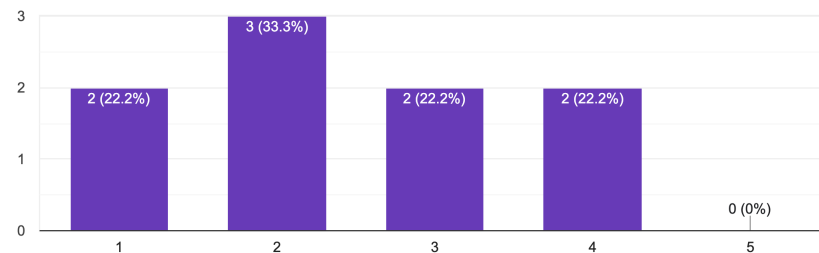
GenAI/LLMs are quite proficient in generating content but they can also be problematic. How much would you like me (instructor) to allow you to use it? Enter on a scale of 1-5 (5 highest).

9 responses



GenAI/LLMs are quite proficient in generating content but they can also be problematic. How much would you like me (instructor) to use it for course material evaluation? Enter on a scale of 1-5 (5 highest).

9 responses



Trust Topics - (explanations, fairness (lack of bias), testing and rating; and in the domains of traffic, election, health and finance.)

- All of them
- Those sound cool
- AI's tendency to reinforce the status quo; how competitive AI is controlled by a few wealthy and powerful men
- Privacy
- unsure
- Not sure what exactly is all involved in trusted AI, but after looking up some other topics, **human oversight and data protection.**
- Some form of arts and fashion and paintings
- The domain of mathematics / problem solving
- Perhaps government services and how minorities are poorly represented and treated in the context of AI systems.

Expectations Survey

Any other comments?

- Just excited for the semester.
- Looking forward to great learning sessions
- For the last two questions. The 3 that I put for "how much would you like me to allow you to use it?", I want to have practice using GenAI/LLMs. For the final question, the 4 I put is meaning **I would like it to be used in lectures as a means to teach by example, so I get a better grasp on GenAI/LLMs.**
- Please help us make the class easy for us. I want to learn about Ai but please don't make it hard for us, **I speak for a lot of us when we say that we're really trying our best and already have a lot on our plates so please Professor, make it easy and entertaining for us** . Thank you in advance and I can't wait to enjoy this class
- I am very excited for the opportunity to take this class. I am especially interested to hear about not just the history and development of trustworthy AI systems, but **also the frontier research being done across the world to make these systems less bias and reliable.**

Course Logistics

Course Description – Spring 2026 (*)

CSCE 581 - Trusted Artificial Intelligence (3 Credits)

<https://cse.sc.edu/class/581>

AI Trust – responsible/ethical technology, fairness/ lack of bias, explanations (XAI), machine learning, reasoning, software testing, data quality and provenance, tools and projects.

Prerequisites: C or better in [CSCE 240](#) and [CSCE 350](#).

Prerequisite or Corequisite: D or better in [CSCE 330](#).

High Level Plan (Original)

CSCE 581 –

- Week 1: Introduction
- Week 2: Background: AI - Common Methods
- Week 3: The Trust Problem
- **Week 4: Machine Learning (Structured data) - Classification**
- **Week 5: Machine Learning (Structured data) - Classification – Trust Issues**
- **Week 6: Machine Learning (Structured data) – Classification – Mitigation Methods**
- **Week 7: Machine Learning (Structured data) – Classification – Explanation Methods**
- Week 8: Machine Learning (Text data) – Classification, **Large Language Models**
- **Week 9: Machine Learning (Text data) - Classification – Trust Issues**
- **Week 10: Machine Learning (Text data) – Classification – Mitigation Methods**
- **Week 11: Machine Learning (Text data) – Classification – Explanation Methods**
- Week 12: Emerging Standards and Laws
- Week 13: Project presentations
- Week 14: Project presentations, Conclusion

AI/ ML topics and with a
focus on fairness, explanation,
Data privacy, reliability

Reference: Intro AI Course Description

CSCE 580 - Artificial Intelligence (3 Credits)

Heuristic problem solving, theorem proving, and knowledge representation, including the use of appropriate programming languages and tools.

Prerequisites: [CSCE 350](#).

High Level Plan (Typical)

CSCE 580 – Introduction to AI – Topics in Recent Courses

- Topic 1: Introduction, aims
- Topic 2: Search, Heuristics
- Topic 3: Constraint Satisfaction Problems
- Topic 4: Decision making - Game trees
- Topic 5: Decision making - Decision networks
- Topic 6: Decision making – Markov Decision Processes, Hidden Markov models
- Topic 7: Learning – naïve Bayes, regression, Classification, clustering (unsupervised)
- Topic 8: Learning neural network, deep learning
- Topic 9: Decision making – Planning, Reinforcement Learning
- Topic 10: Robotics
- Topic 12: Representation, Ontology
- Topic 12: Tools

Fall 2024

Classical AI topics and a
focus on implementation

Reference: AI Learning Objectives

Understand the breadth of AI techniques, be empowered to solve real-world challenges

- L1: Appreciate and work with diversity of data— text, speech and visual; focus of course will, be structured data (e.g., tables) and text (NLP; English)
- L2: Learn techniques to derive insights from data spanning reasoning (e.g., symbolic) and learning (e.g., neural) in a decision-making setup
- L3: Learn methods to represent and organize insights
- L4: Make insights usable with people in a collaborative setting (“chatbots”)
- L5: Understand issues related to usage of AI methods/ tools with people.
- L6: Gain experience by build a real-work AI

Adapt Based on Class Interest?

- CSCE 581: AI/ ML topics and with a focus on fairness, explanation, Data privacy, reliability
- CSCE 580: Classical AI topics and a focus on implementation
- Need to adapt?
 - AI/ ML topics with a focus on generative AI, fairness, explanation, adversarial attacks; building chatbots

Administrative Information – CSCE 581

Walk through of
Github:

<https://github.com/biplav-s/course-tai-s26/>

Website:

<https://sites.google.com/site/biplavsrivastava/teaching/ai-csce-581-spring-2026-trusted-ai>

Quick Info - When and Where

- Tuesday/Thursday 11:40 am – 12:55 pm
- In person at **Swearingen Engr Ctr| Room 2A15**. Recordings will be available on Blackboard whenever feasible.

Catalog Information

- [Trusted AI - CSCE 581 001](#)
- CRN: 53067
- Duration: 01/12/2026 - 05/06/2026

Instructor Information

- Instructor: Biplav Srivastava
- E-mail: [biplav.s AT sc.edu](mailto:biplav.s@sc.edu)
- Office Hours: 10:15-11:15am (Tu, Th); other times by appointment
- [GitHub](#) for slides, sample code.

Course Material

- Artificial Intelligence: A Modern Approach (Fourth edition, 2020), Stuart Russell and Peter Norvig,
 - <http://aima.cs.berkeley.edu/>, ISBN-13: 978-0134610993
- Trustworthy Machine Learning, by Kush R. Varshney, <http://www.trustworthymachinelearning.com/>, 2022

Open Datasets

- data.gov from ANY COUNTRY
 - Portal: <https://dataportals.org/>
 - US: <https://www.data.gov/> or any US state
 - India: <https://data.gov.in>
- Text of legislations - LegiScan, <https://legiscan.com/>
- Kaggle datasets: <https://www.kaggle.com/datasets>
- Google datasets search: <https://datasetsearch.research.google.com/>

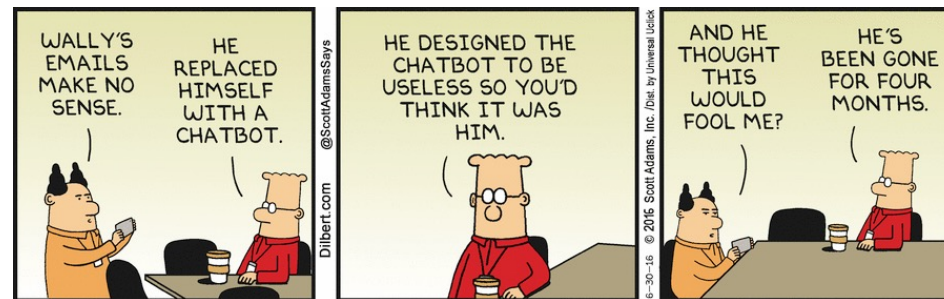
- AI Fairness
 - Trisha Mahoney, Kush R. Varshney, and Michael Hind, Available at: <https://krvarshney.github.io/pubs/MahoneyVH2020.pdf>
 - In AI We Trust: Ethics, Artificial Intelligence, and Reliability, Mark Ryan. Available at: <https://link.springer.com/article/10.1007/s11948-020-00228-y>
- Python for Data Analysis
 - Latest: Python for Data Analysis Book, by Wes McKinney, 2nd Edition. On Amazon at: <https://www.amazon.com/gp/product/1491957662/>, ISBN-13: 978-1491957660, ISBN-10: 1491957662
 - Book Data and Code Notebooks: <https://github.com/wesm/pydata-book>
 - 1st edition (free download): <https://bedford-computing.co.uk/learning/wp-content/uploads/2015/10/Python-for-Data-Analysis.pdf>

Student Assessment

A = [920-1000]
B+ = [870-919]
B = [820-869]
C+ = [770-819]
C = [720-769]
D+ = [670-719]
D = [600-669]
F = [0-599]

| Tests | Undergrad | Grad |
|--|-------------|-------------|
| Course Project – report, in-class presentation | 600 | 600 |
| Quiz – best of 2 from 3 | 200 | 200 |
| Final Exam | 200 | 100 |
| Additional Final Exam – Paper summary, in-class presentation | | 100 |
| Total | 1000 points | 1000 points |

AI for the Real World



Credit: Dilbert – June 30, 2016

Lecture 2: Data

- Data analysis for traffic (South Carolina), Trust – <https://ai4society.github.io/projects/traffic-page/index.html>
- Recommendations and Trust [Fairness and Teaming Recommendation] – https://ai4society.github.io/projects/group_rec/index.html

Lecture 2 – Open Data

Types of Data

- By media: Text, Sound (speech), Visual (image, video), Multi (modal, media)
- By structure: unstructured, semi-structured, structured
- By features: time-series, labeled/ unlabeled, spatio-temporal,

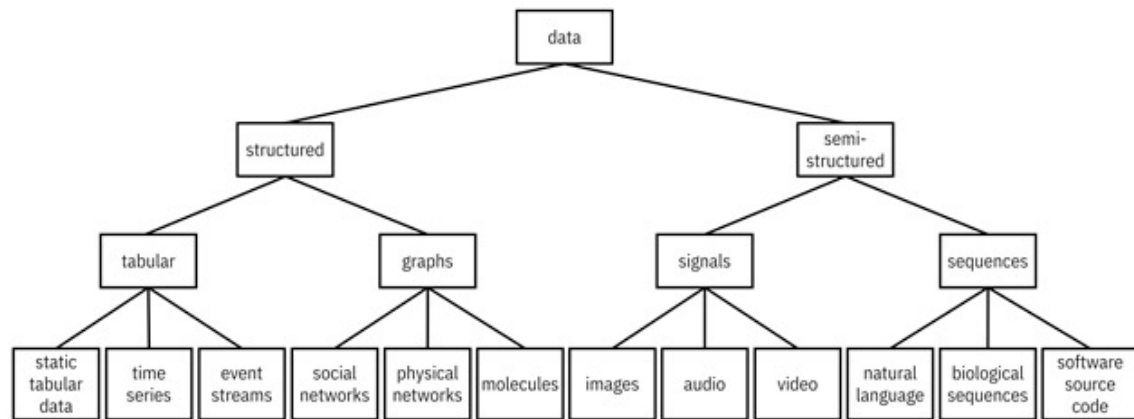
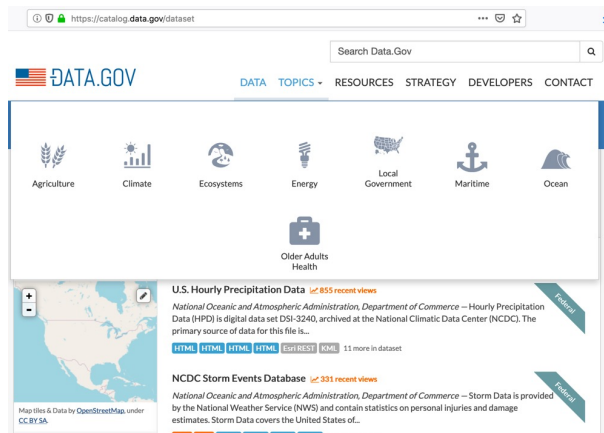


Image credit:

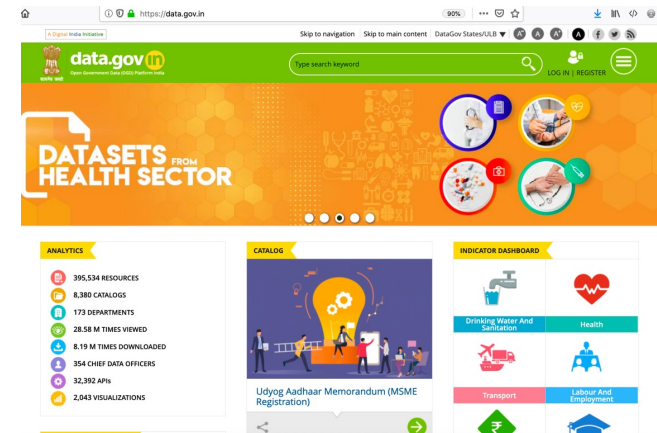
<http://www.trustworthymachinelearning.com/trustworthymachinelearning-04.htm>

Open Data

- Open data is the notion that data should not be hidden, but made available to everyone to **reuse**. **The idea is not new.**
- Scientific publications follow this: “standing on the shoulders of giants”
- Data quality and open publishing process is critical



USA



India

Does Opening Data Make It Reusable? No

Illustration of Levels

Temperature forecast for Galway, Ireland

| Day | Lowest Temperature (°C) |
|----------------------------|-------------------------|
| Saturday, 13 November 2010 | 2 |
| Sunday, 14 November 2010 | 4 |
| Monday, 15 November 2010 | 7 |

`<open:property="meteo:celsius" datatype="xsd:decimal" style="border: 1px dotted red;">2</open>`

4

| Temperature forecast for Galway, Ireland | |
|--|-------------------------|
| Day | Lowest Temperature (°C) |
| Saturday, 13 November 2010 | 2 |
| Sunday, 14 November 2010 | 4 |
| Monday, 15 November 2010 | 7 |

1

| Temperature forecast for Galway, Ireland | |
|--|-------------------------|
| Day | Lowest Temperature (°C) |
| Saturday, 13 November 2010 | 2 |
| Sunday, 14 November 2010 | 4 |
| Monday, 15 November 2010 | 7 |

2

Source: <http://5stardata.info/>

Temperature forecast for Galway, Ireland

| Day | Lowest Temperature (°C) |
|----------------------------|-------------------------|
| Saturday, 13 November 2010 | 2 |
| Sunday, 14 November 2010 | 4 |
| Monday, 15 November 2010 | 7 |

`<open:property="meteo:celsius" datatype="xsd:decimal" style="border: 1px dotted red;">2</open>`

5

gtd-3.csv - WordPad

File Edit View Insert Format Help

"Temperature forecast for Galway, Ireland",

"Day", "Lowest Temperature (°C)"

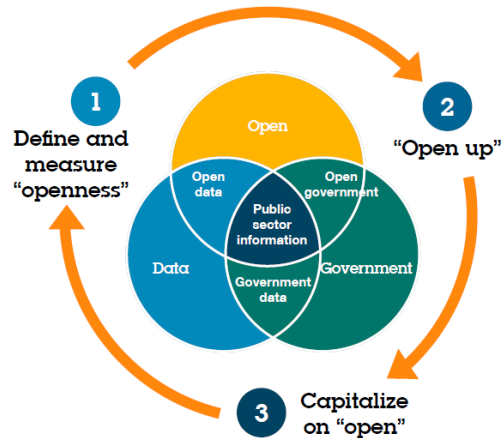
"Saturday, 13 November 2010", 2

"Sunday, 14 November 2010", 4

"Monday, 15 November 2010", 7

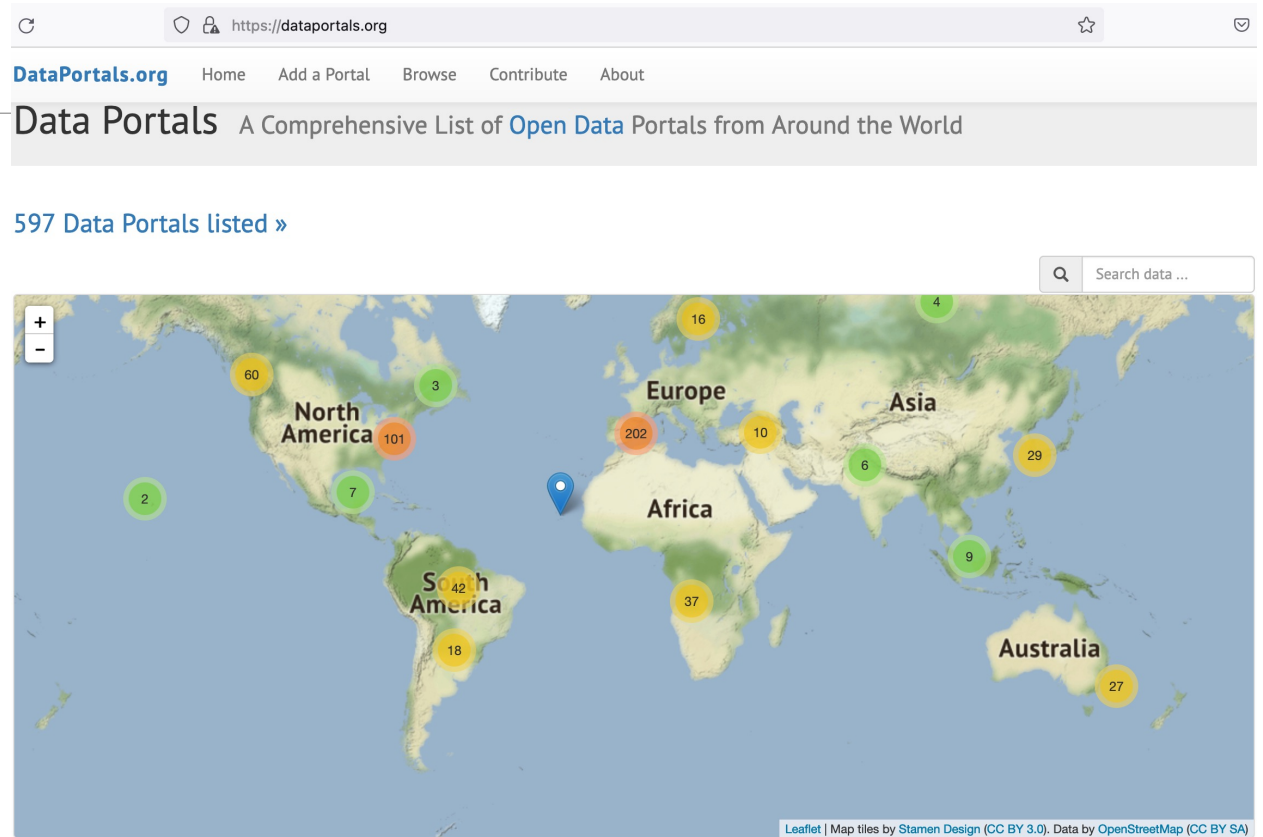
3

About 600 Data Catalogs of Public Data



Source: IBM Institute for Business Value.

As on 17 Aug 2022



Guideline: Human Impact of AI

- We study technology (AI) but it works with data
- Data, when from people or about people, can have issues like bias
 - **Example:** data reveals a view which is influenced by data collection practices
 - **Difference:** **World as it is**, world according to data and **world as it should be**
- The course and instructor believes in
 - Not promoting bias of any kind
 - Respecting everyone regardless of background

AI Ethics

Why is Ethics Even an Issue?

- When a technology works with humans and relates to inter-personal issues, the question of ethics comes into picture
- Examples: medicine (opiods), food (genetically modified)

Discussion: what, if any issue,

- in recommending courses to students?
- in finding treatment for Covid?

What is Specific to AI?

- AI needs **data**
 - Data privacy and governance
- AI is often a **black box**
 - Explainability and transparency
- AI can make **decisions/recommendations**
 - Fairness and value alignment
- AI is based on statistics and has always a small percentage of **error**
 - Who is accountable if mistakes happen?
- AI can infer our preferences and **manipulate** them
 - Human and moral agency
- AI is very **pervasive and dynamic**
 - Larger negative impacts for tech misuse
 - Fast transformation of jobs and society

Credits:
Tutorial on [Trusting AI by Testing and Rating Third Party Offerings at IJCAI 2020](#), Biplav Srivastava, Francesca Rossi, Jan 2021

Main AI Ethics Issues



DATA GOVERNANCE
AND PRIVACY



FAIRNESS AND
INCLUSION



HUMAN AND
MORAL AGENCY



VALUE ALIGNMENT



ACCOUNTABILITY



TRANSPARENCY AND
EXPLAINABILITY



TECHNOLOGY
MISUSE

Credits:

Tutorial on [Trusting AI by Testing and Rating Third Party Offerings](#) at IJCAI 2020, Biplav Srivastava, Francesca Rossi, Jan 2021

Collaborative Assistants

- Conversation agents and interfaces (chatbots) are getting easy to build and deploy
 - Can be text-based or speech-based
 - Usually multi-modal (i.e, involving text, speech, vision, document, maps)
- Current chatbots typically interact with a single user at a time and conduct
 - Informal conversation, or
 - Task-oriented activities like answer a user's questions or provide recommendations

Demonstrations

- *Eliza*, <http://www.manifestation.com/neurotoys/eliza.php3>
- *Mitsuku*, <https://www.pandorabots.com/mitsuku/>
- ChatGPT, <https://openai.com/blog/chatgpt>

Exercise: Session with ChatGPT

- Ask questions about Water usage
 - Experience
- Ask questions about Finance
 - Experience
- Hint:
 - Demand / supply questions: “can I drink water of Lake Murray”?, “will US have money to pay debt next year”
 - Decision questions: “which water should I choose between a bottled one and tap”?
 - Factoid questions: “is pH of 7 good for drinking water?”

Exercise: Your Resumes

- What does a search (Google search) tell about you?
- What does a LLM/ ChatGPT tell about you?
- Task:
 - Put your resume at: <TBD>
- Course task: We will analyze them as part of AI/ data science activity in a later class

Exercise: Solving Games with AI

- Popular way to learn AI is via games
 - <https://github.com/biplav-s/course-ai-tai-f23/blob/main/sample-code/Class1-games.md>

Concluding Section

Lecture 1: Concluding Comments

- We did a quick overview of
 - AI
 - Trust issues
- Course will focus on
 - Understanding trust issues and ongoing ways to make AI reliable, practical ways to convey trustworthy results to users.
 - Student evaluation will be by via project, paper and quizzes
- Exciting techniques to learn to impact the world around us

About Next Week – Week 2 (L3, L4)

High Level Plan (Original)

CSCE 581 –

- Week 1: Introduction
- Week 2: Background: AI - Common Methods
- Week 3: The Trust Problem
- Week 4: Machine Learning (Structured data) - Classification
- Week 5: Machine Learning (Structured data) - Classification – Trust Issues
- Week 6: Machine Learning (Structured data) – Classification – Mitigation Methods
- Week 7: Machine Learning (Structured data) – Classification – Explanation Methods
- Week 8: Machine Learning (Text data) – Classification, **Large Language Models**
- Week 9: Machine Learning (Text data) - Classification – Trust Issues
- Week 10: Machine Learning (Text data) – Classification – Mitigation Methods
- Week 11: Machine Learning (Text data) – Classification – Explanation Methods
- Week 12: Emerging Standards and Laws
- Week 13: Project presentations
- Week 14: Project presentations, Conclusion

AI/ ML topics and with a
focus on fairness, explanation,
Data privacy, reliability

Lecture 3, 4:

- Trust Motivation, Review Scope, Data
- Data, Knowledge Graph

| Class # | Date | Description | Comments |
|---------|-------------|--|----------|
| 1 | Jan 13 (Tu) | Introduction, Trusted AI | W1 |
| 2 | Jan 15 (Th) | Case Studies: Data Analysis for AI, Analysis for Trust [Traffic], Recommendations and Trust [Fairness and ULTRA] | |
| 3 | Jan 20 (Tu) | Review: Trusted Decisions, Expectations, Course Scope; Data | W2 |
| 4 | Jan 22 (Th) | AI: Data Prep, Knowledge Graph | |
| 5 | Jan 27 (Tu) | Common AI methods: ML Landscape | W3 |
| 6 | Jan 29 (Th) | AI - Structured: Analysis – Supervised ML | |