The Stories We Share

Integrating the Humanities and Sciences

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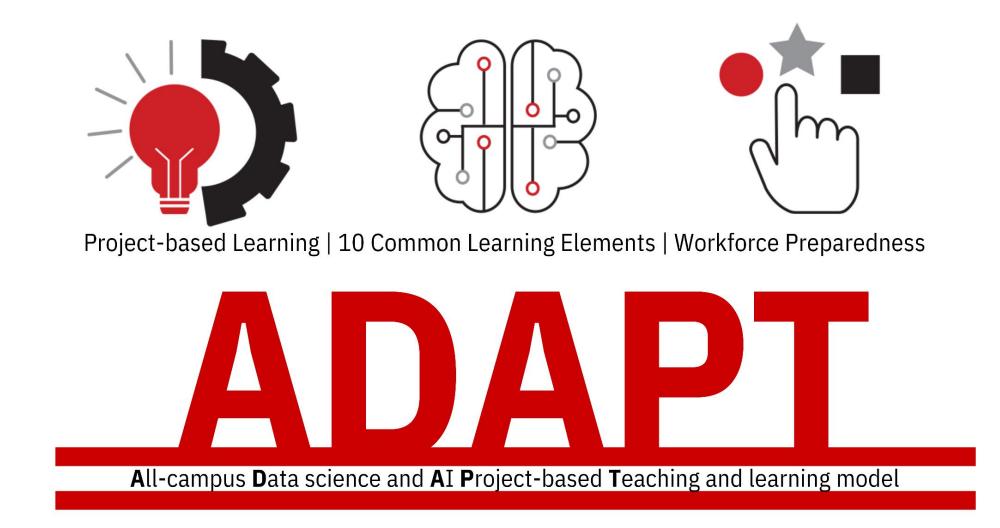
offer the skills needed in a rapidly

learning in new contexts.

missing

information

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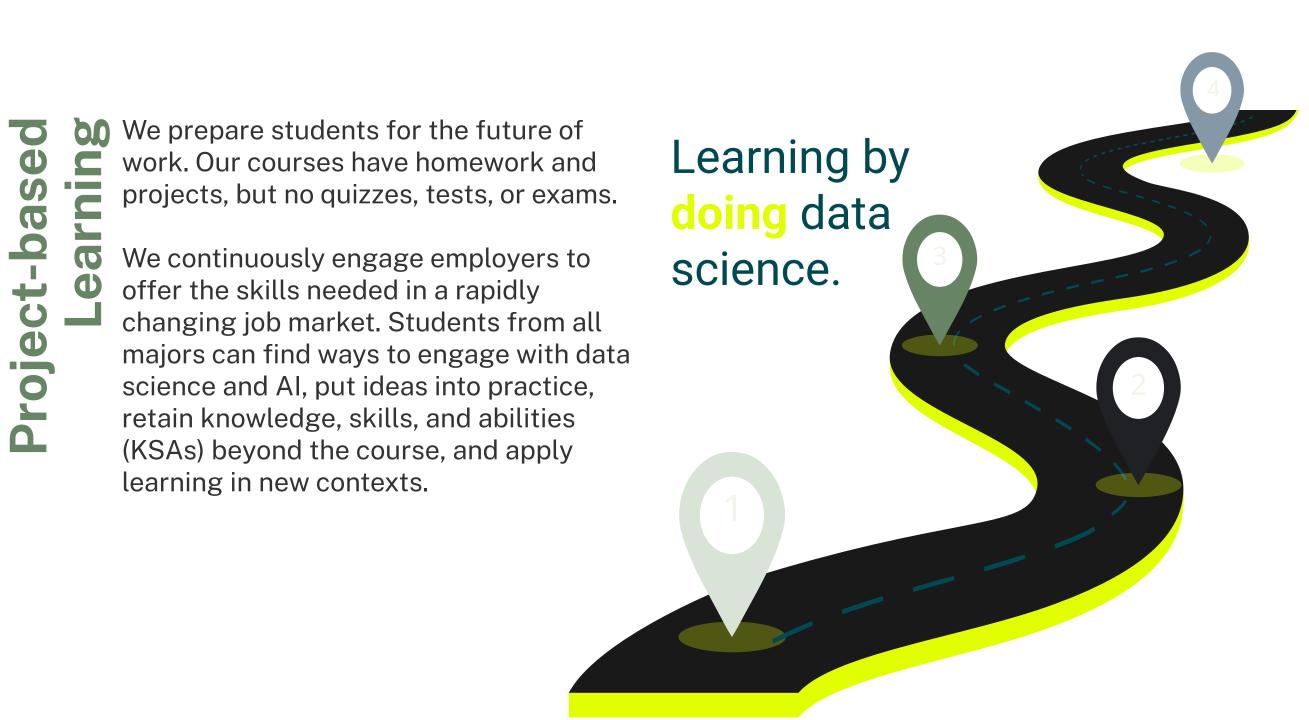
About the DSA: NC State University's Data Science and Al Academy

First NC State Academy Launched July 2021

Mission: The DSA empowers people to use data ethically, effectively and accessibly. As a university-wide effort involving all 10 colleges, it encompasses multiple departments to address all three pillars of the university's land-grant mission: education, research and service to the state of North Carolina.

The Data Science and AI Academy designs and delivers instruction through the ADAPT model: All-campus Data Science and Al Project-based Teaching and learning model. Our courses are open to all learners and have included undergraduates, graduate students, faculty, staff, alumni and community members.

https://datascienceacademy.ncsu.edu/



We prioritize interdisciplinary learning experiences in which students have the agency to make genuine choices. In the workplace, data and AI practitioners will need to make decisions about which data

to consider, which tools to use, and which questions to explore. We give students opportunities to become data and Al problem solvers by practicing decision-making in their homework and projects. Students from all majors across the university participate in our courses and apply data science and AI in their disciplines. They learn how to communicate about data and AI so that their work can be used and understood. We continuously adapt our courses to new technologies, new methods and models, and new employer needs.

DATA PRACTICES

communication

Humanistic teaching in the data science classroom

Embracing

student-led discussions and discovery to support student autonomy with their learning

Recognizing

everyone is the expert of their lived experience and those stories are worth telling and hearing

Centering

students' independence and agency over their learning through self-selected or constructed assessments

Deconstructing

what counts as data science and challenging what data science looks like and can accomplish

Prioritizing

unconventional forms and practices of data science -- such as storytelling and data humanism

Investigating

ethical issues

and ways to

approach them

DSA 295: Storytelling with Data and Al

Course Description

While AI provides the opportunity for endless generated work, this course explores what is needed to generate a good story. Through artistic AI creation and play, students have the opportunity to engage in AI and data generation.

Moreover, this course focuses on using the data of self to investigate what gets counted as data, what data looks like, and what data can be used for.

Readings

on **AI** (ethics, art, opportunities, development, erasure, environmental impacts), data (feminism, humanism), and **stories** (literature/short stories, what constitutes a story, why they

Data Diary Assignment

Drawing upon the informal, reflective, and situated-knowledge-dependent modality of diaries, students construct a semester-long Data Diary that serves as a longitudinal compilation of their data and generative AI work.

In-Class Studio Days

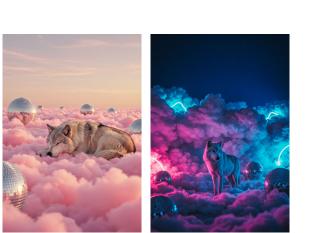
3 class sessions (of 13 total sessions) were focused exclusively on in-class guided workshops and tutorials on Al-image generation and prompt development

The Story of Self

tactics developed over the course of the semester to co/construct an Al-generative image, film, broadside, or some other visual representation to convey a story about the/your self.



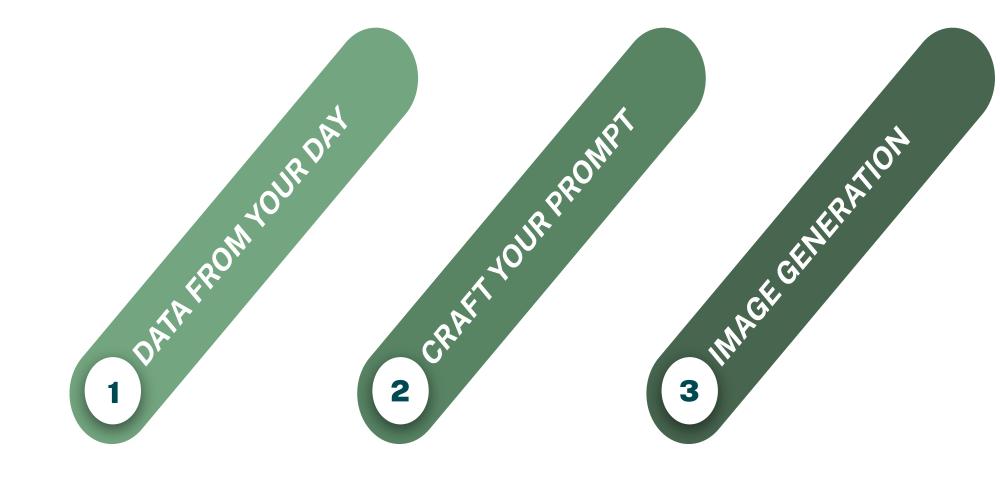




"We are ready to

question the impersonality of a merely technical approach to data and to begin designing ways to connect numbers to what they really stand for: knowledge, behaviors, people." —Giorgia Lupi

The final project draws upon skills and



Data

Weather: cold, snowy Mood: curiosity and fatigue Core memory: reading

Prompt

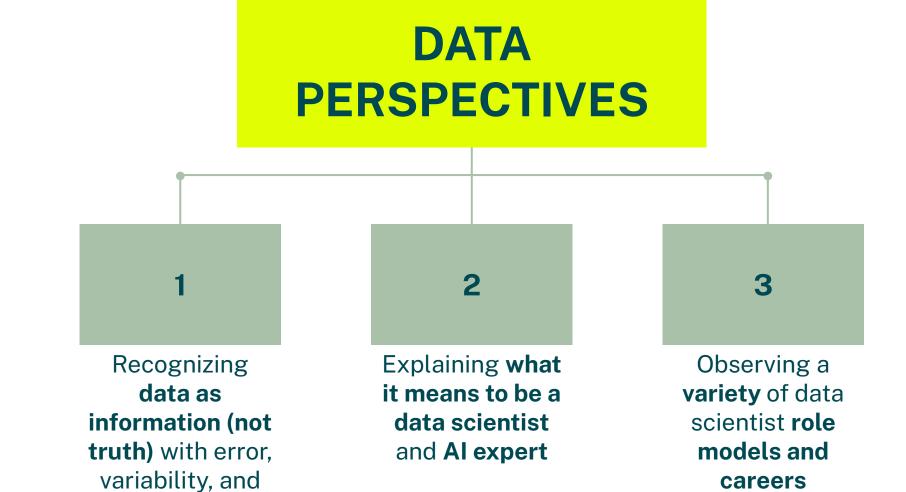
snowy landscape with pages of books fluttering in the breeze. it is sunset and the clouds are low and foggy 35mm film chiaroscuro blue and purple tones



narrative development alongside data collection and analysis to reimagine and actionize a practice of learning that works across disciplines to better reach all students.

This class relies upon close reading, storytelling, and argumentative

ADAPT's 10 Common Learning Elements

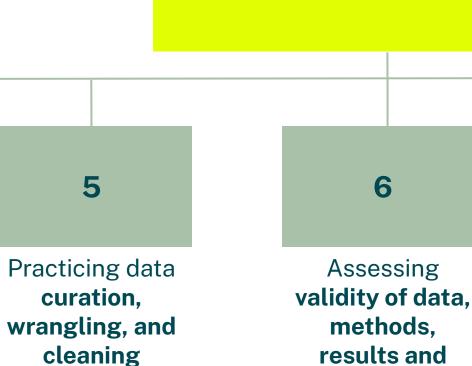




assumptions

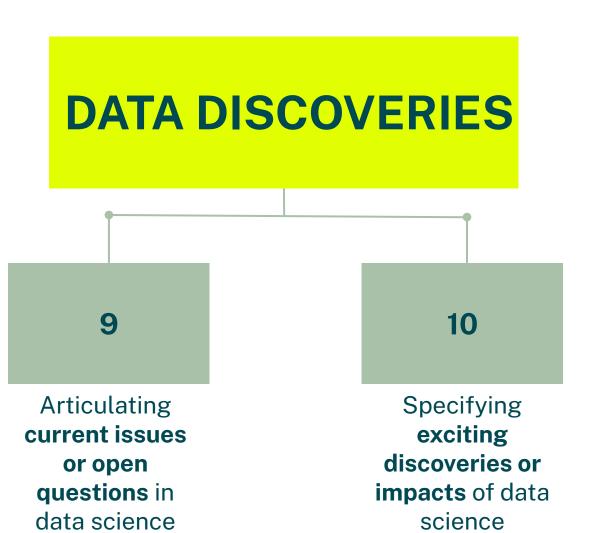
and collection

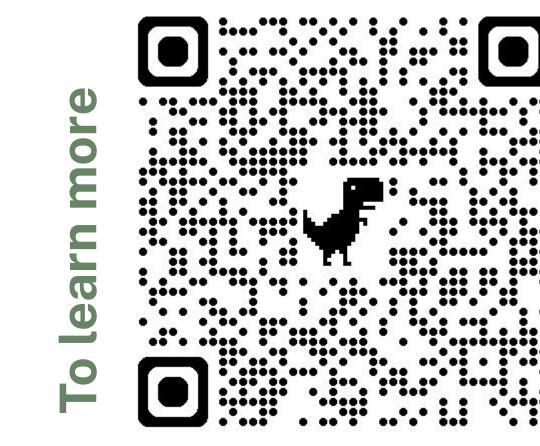
practices





broadband is required for applications, including color palettes that are visible to people who are color blind, adding captions to video and adding descriptive text to images





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Data Science and Al Academy

References

Lupi, G. (2017, January 30). Data humanism: The revolutionary future of data visualization. PRINT Magazine. https://www.printmag.com/article/data-humanism-future-of-data-visualization/

