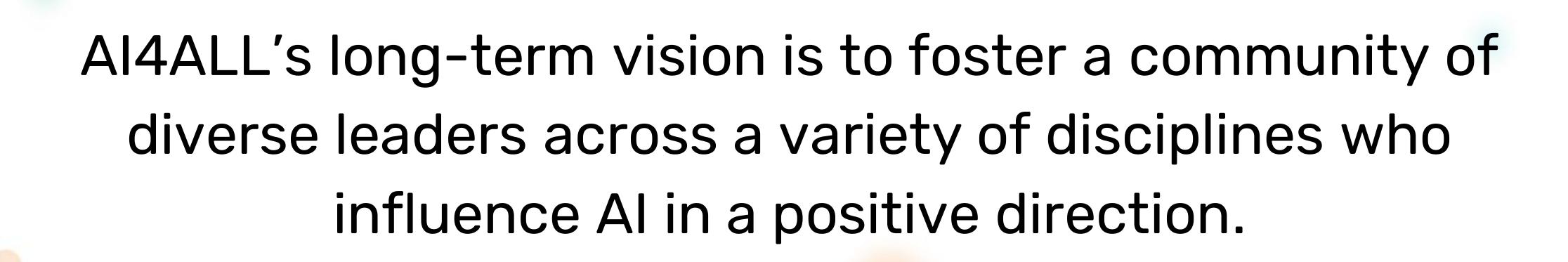


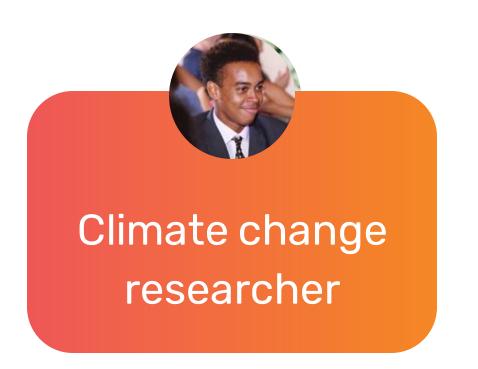
Who is AI4ALL?

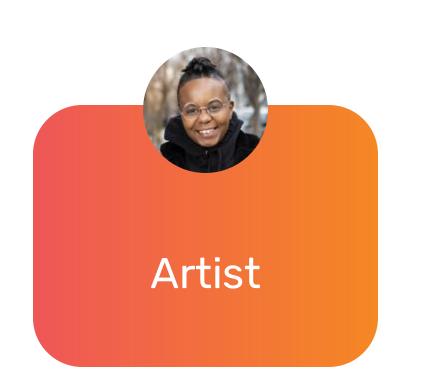
AI4ALL is a national nonprofit that opens doors to the artificial intelligence industry for historically excluded talent through education and mentorship. We nurture a global community of students who learn AI fundamentals and who then apply those principles to solve society's most pressing problems in deeply innovative and ethical ways. By telling a new story about who can be a leader in AI, we're creating tomorrow's AI leaders, and changing technology's future. More information at www.ai-4all.org.















What about you?

What schools are you from & what compelled you to be here today?



College Pathways



U.S. University and College Campuses

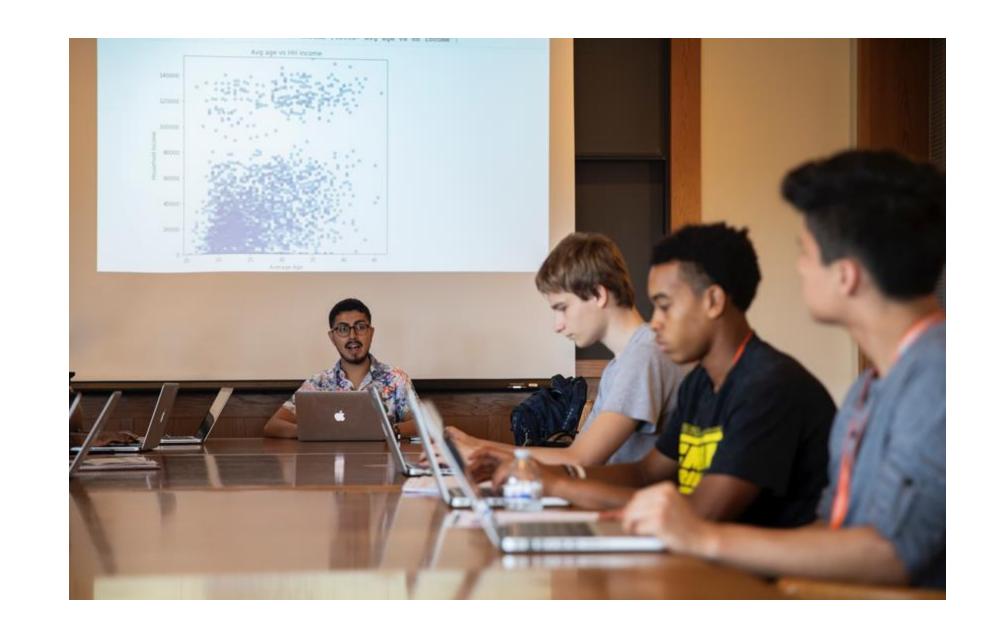
Online

In Person

College Pathways programs spark interest and increase persistence in AI-related careers for college students from historically excluded groups.

Students completing College
Pathways can join Changemakers
in AI to get support to become
leaders in AI with a social impact
and ethics lens.

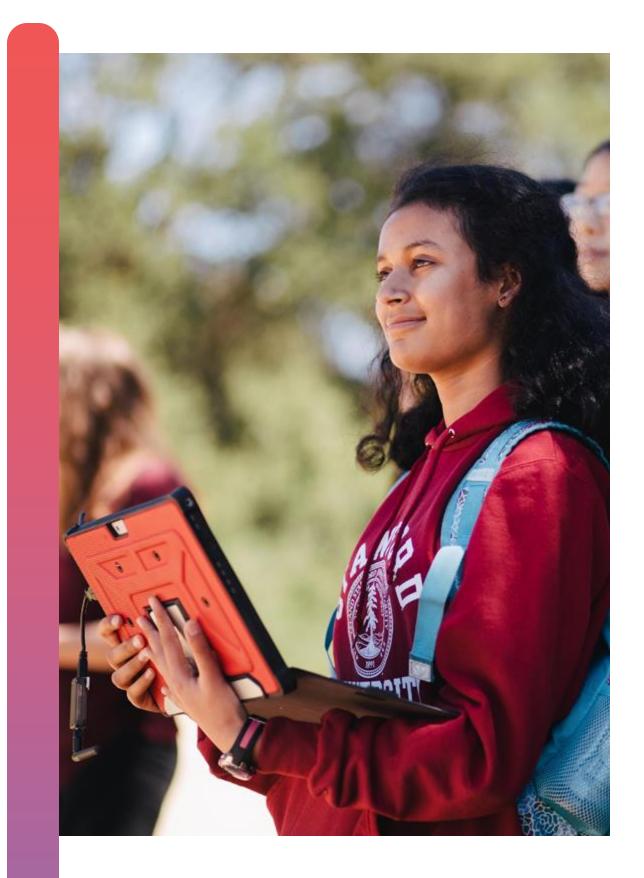
College Pathways programs complement AI coursework that university partners already offer.







College Pathways



Goals: Spark interest and increase persistence in AI-related careers for college students. Bring together and highlight voices that have been historically excluded, and that will lead and shape the future of AI.

STEP 1: DISCOVER AI Intro to AI fundamentals

STEP 2: APPLY AI
Build an Al portfolio

STEP 3: CHANGEMAKERS
Internships and career development

AI4ALL Support All the Way



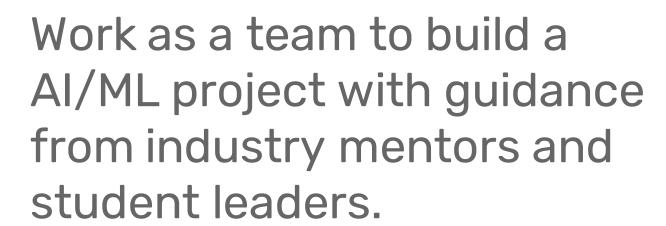
AI/ML fundamentals & ethics

Learn the fundamentals of AI/ML & ethics through research, interactive discussions & hands-on activities



APPLY AI

AI/ML Project & Mentorship



Discover AI certificate required

Some Python experience strongly encouraged



CHANGEMAKERS IN AI

AI4ALL Alumni Community

Build your network and get access to internships and additional mentorship opportunities.

Apply Al certificate required

© Al4ALL, 2021. May be reproduced with permission

Who we serve

AI4ALL programs are designed to bring together and highlight voices that have been historically excluded, and that will lead and shape the future of AI. We aim to serve the following students, especially those at the intersection of two or more of these identities:

- Indigenous Peoples, Black, Hispanic or Latinx, Pacific Islander, and Southeast Asian
- Trans and non-binary; two-spirit; cis women and girls
- Lesbian, gay, bisexual, asexual, and queer
- Students with a demonstrated financial need (for example, students who receive financial aid)
- First-generation college student

Class Level: Freshman, Sophomore, Juniors

Majors: All majors welcome. However, we also want to recruit CS majors



Discover Al @ a Glance

• 10-week virtual program - asynchronous and synchronous instruction

University	Day of Week	Time of Week
UTEP	Friday	1:30 p.m 3:00 p.m. CT
TAMU	Thursday	8 p.m 9:30 p.m. CT
		12 :00 p.m 1:30 p.m. MT
NMSU	Thursday	(1:00 p.m 2:30 p.m. CT)
UIUC	Thursday	3:30 p.m 5 p.m. CT
		11:30 a.m 1:00 p.m. ET
UMBC	Friday	(9:30 a.m - 11:00 a.m. MT)
AUC & HBCU Schools	Tuesday	5:30 p.m7:00 p.m. ET
MDC	Monday	6:00-7:30 p.m. ET
UNT	Wednesday	3:30 p.m 5:00 p.m. CT



Our Essential Question How can artificial intelligence impact our world?

Discover Al: What will you learn?

• Discover AI is a student-centered experience that exposes you to fundamental AI concepts through interactive discussions, conversations with AI experts, research and hands-on assignments. You will build your understanding of AI through the lens of societal impact and ethics.

Module 1: What is Al?

Module 2: Algorithms, Data, and Bias

Module 3: Gradient Descent

Module 4: Neural Networks

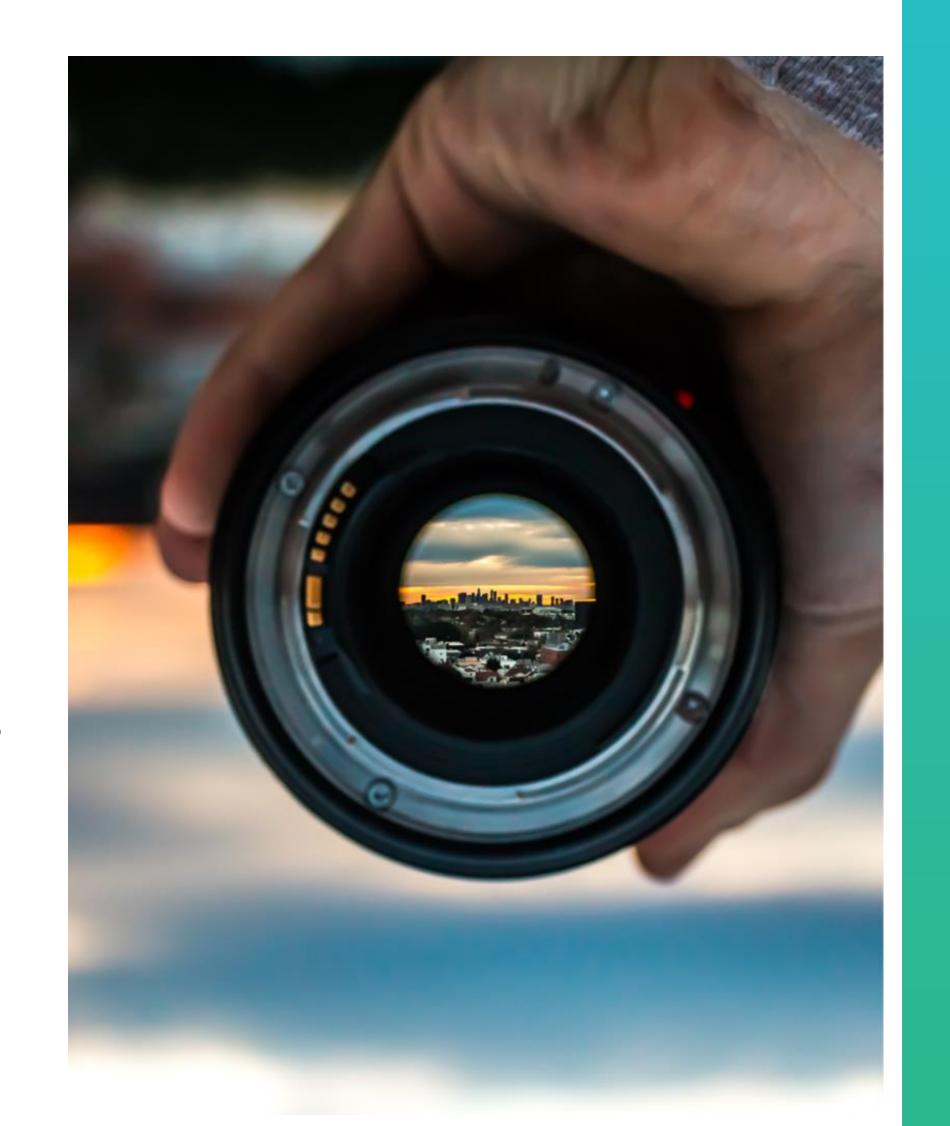


Discover Al Focus

Al Understanding: Introduction to technical Al concepts including common algorithms & terminology

Bias, Ethics & Impact: Critique & challenge the current landscape of AI through the lens of societal impact, bias and ethics.

Collaboration & Feedback: Work with your peers to discuss and address challenges in the Al space. Provide & receive peer-feedback.



Program Deliverables & Showcase

Reflections Assignments: Reflect on your learning and engage classmates in meaningful discussions.

Hands-on & Research Assignments: Opportunities for you to deepen your understanding of the concepts presented in lectures.

Peer Feedback: Provide feedback on the teams' proposals & final presentations

Final Project & Project Proposal: Use creativity to educate your audience about Al & its ethical/societal impacts; answer our essential question. Showcase at the end of Discover Al.



Complete all required assignments to receive certificate of completion

My Al Roadmap outlining your next steps in your Al journey.

Course Structure & Components

MODULES: 1: What is AI?, 2: Algorithms, Data & Bias, 3: Gradient Descent, 4: Neural Networks

Pre-Recorded Lectures	Two to three pre-recorded video lectures
Reading & Articles	Optional reading that provides context & relevant examples
Research Assignments	Deepen your understanding of discussions through research
Ask Me Anything Panel	Live interactive conversation with an Al expert
Reflections & Discussions	Reflect on your learning & engage in discourse
Labs: Hands-On Activities	Synchronous instruction that focuses on hands-on activities
Ethics Discussions	Synchronous discussions with students and the instructor
Office Hours	Optional live instruction, discussions & demos

Discover Al: "Ask Me Anything"

- The "Ask Me Anything" Series is an interactive virtual experience that gives Al4ALL's Discover Al and Apply Al students an opportunity to connect with artificial intelligence role models who are artificial intelligence experts in industry, research and policy.
- These 30-minute conversations are meant to excite students about the diverse possibilities of artificial intelligence and inform them of the latest trends in industry, research and policy while exposing the successes and challenges of developing ethical AI solutions.
- Launched in Fall 2020, we've welcomed experts from Accenture, Oracle, Capitol One, IBM, Simpa,
 Lexis Nexis, Airbnb, etc.



During the Program

AI4ALL College Pathways Instructor

- A Teaching Assistant in the form of a student from your school that supports the program
- The AI4ALL student engagement team



Discover Al Important Dates & Applications

- Vary by school. Please visit your school's application for more information
- Texas A&M
- University of Illinois, Urbana Champaign
- University of North Texas
- New Mexico State University
- University of Texas, El Paso
- The AUC Center (HBCU Schools Morehouse, Spelman, and Clark Atlanta)
- University of Maryland, Baltimore
- Miami Dade College



How to apply to Discover Al

- Using the application link, submit a Discover AI program application
- To apply, use your school's application link that will be provided to all interested students
- If you have friends or colleague that also want to apply, feel free to send them your school's application link.

APPLICATION REQUIREMENTS

- Freshman, Sophomore, Junior only
- Open to all coding levels

Application Components:

- Essay question (500 words or less)
- Resume
- If under 18, parent approval form



Application Guidelines

- We welcome students at any level of coding experience (No experience, beginner, and beyond.)
- While Seniors may apply, the program is best suited for Freshman, Sophomore, and Junior Undergraduate students.
- All majors welcome, including Computer Science but not exclusively.
- A focus on the student's that we serve that are historically excluded from Al.



AI4ALL Support All the Way



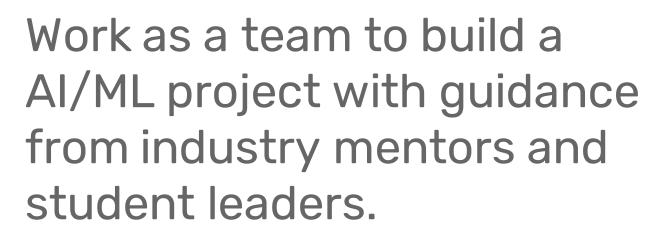
AI/ML fundamentals & ethics

Learn the fundamentals of AI/ML & ethics through research, interactive discussions & hands-on activities



APPLY AI

AI/ML Project & Mentorship



Discover AI certificate required



CHANGEMAKERS IN AI

AI4ALL Alumni Community

Build your network and get access to internships and additional mentorship opportunities.

College Pathways: Student Success



Vanessa COLLEGE STUDENT

College Pathways at University of Illinois at Urbana-Champaign

DURING DISCOVER AI

As a Systems Engineering
Major, Vanessa enjoyed
collaborating with peers outside
her major as part of the first
Discover AI cohort. Her
experience left her wanting to
learn more about ethics in AI,
particularly regulatory
approaches.

DURING APPLY AI

Vanessa was motivated to participate in the first Apply AI cohort (in progress) in order to delve deeper into AI concepts and to gain more technical and coding skills. Her portfolio project focuses on looking at data from the 2016 election to better predict who voters might have chosen in the primaries.

"In the future I would like a career that works alongside the environment with technological advancements, so I would like to learn more about how we can use AI to help the environment and the people impacted by climate change."

AI4ALL Talent: Potential Future Leaders in AI



Kasar P.
College Student
AI4ALL ALUM

- Research intern at CUNY, where he developed sensors to monitor air quality, leading to creation of new lab at CUNY
- Salutatorian of high school class; plans to study astrophysics



Stephanie T.
College Student
AI4ALL ALUM

- Researching Al-assisted methods for tracking the flow of contaminated water in her hometown of Salinas, CA.
- Started AI club at local middle school, which has been running for 2 years.



Bekah A.
College Student
AI4ALL ALUM

- Summer research intern at MIT
- 2018 winner of National Center for Women & Information Technology National Award (NCWIT)



Reflections from a College Pathways student

"[I participated in College Pathways because] I believed it would help me grow as a Computer Scientist. I believe AI is a powerful and amazing tool with the ability to do great things for society. I also believe AI needs to be used ethically and responsibly...This is a growing field, and I am excited to be a part of it...I find the topic fascinating."

 Female, first generation, computer science major who participated in the Spring 2021 cohort at New Mexico State University

College Pathways is possible because of this amazing team!



Roshni Kasad, PhD
Senior Director
roshni@ai-4-all.org



Amir Golnabi, PhD
Training & Instruction
Manager
amir@ai-4-all.org



Sean Peters, PhD
Senior Manager
sean@ai-4-all.org



Diane Uwacu, PhD candidate
Lead Instructor
diane@ai-4-all.org



Alvaro Rojas-Caamano, MA
University Partnerships
Manager
alvaro@ai-4-all.org



Elizabeth Spenst
Program Associate
elizabeth@ai-4-all.org

Collectively, we have experience in the following areas:





Questions?

Get in touch: collegepathways@ai-4-all.org



