

Break Through Tech AI

Initiative in Schwarzman College of Computing Dean's Department



Who We Are

Break Through Tech AI is a 100% free, 1-year extracurricular program that helps undergraduate women, non-binary, and underrepresented students gain the skills they need to get jobs in data science, machine learning, and artificial intelligence.

Our Program



Break Through Tech AI helps undergraduate women and other underrepresented groups in tech gain the skills they need to get jobs in the fastest-growing areas of tech: Data Science, Machine Learning, and Artificial Intelligence. **It is a free program.**



Rigorous machine learning and AI curricula that teach the practical skills that qualify candidates for jobs in the field



Building a portfolio of projects that pose solutions to real-world business challenges



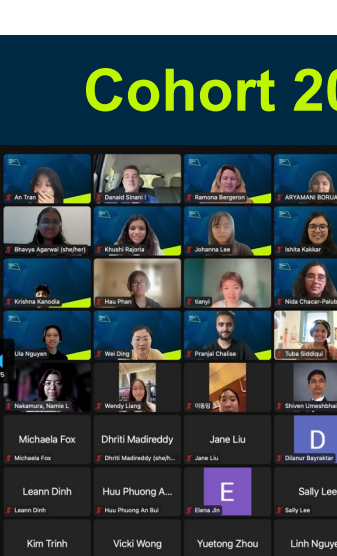
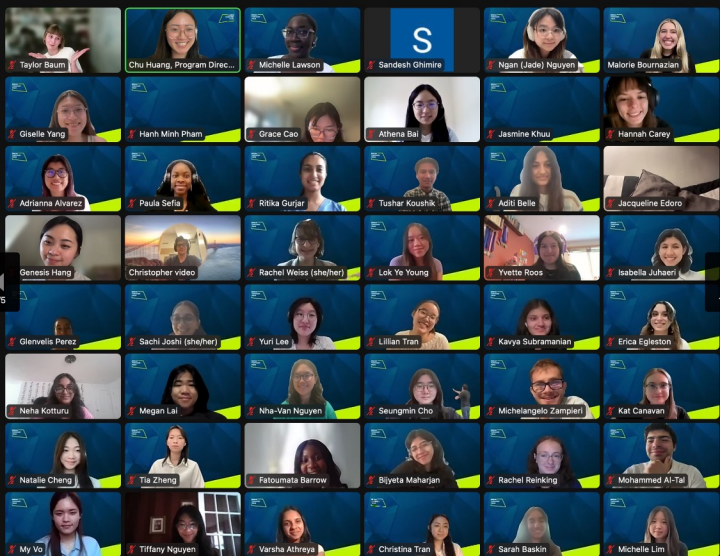
Mentorship and career coaching that build students' authentic leadership and social capital to result in employment in ML and AI-related roles

Cohort 2022



Cohort 2023





Cohort 20



Snapshot of Cohort 2024



Simmons
UNIVERSITY

LUX ET SPES



AMHERST
COLLEGE



Olin College
of Engineering

NORTHEASTERN



BROWN



PROVIDENCE
COLLEGE



DARTMOUTH



NORTH SHORE
COMMUNITY COLLEGE



WENTWORTH
Institute of Technology



Summer Reflections

- MIT site students interviewed by the Reinvented Magazine to share about their Kaggle Competition with New York Botanical Garden
- Matriculated a cohort of 261 students from 39 different colleges & universities
- Students attendance for both in person and virtual lab section stays above 85% attendance.
- Based on ML Foundations Course weekly survey feedback, students most favorite part of our lab sections are the guest speakers who come in to share real world experiences that aligns with the unit materials
- ML Foundations Teaching Team grown double in size! Kimberle Koile has instructed and contribute to the course curriculum 3 summers consecutively



Featured in NY Times “AI Program Aims to Break Barriers for Female Students”

https://www.nytimes.com/2024/05/15/technology/ai-internships-female-students-cornell-mit-ucla.html

The New York Times

Account

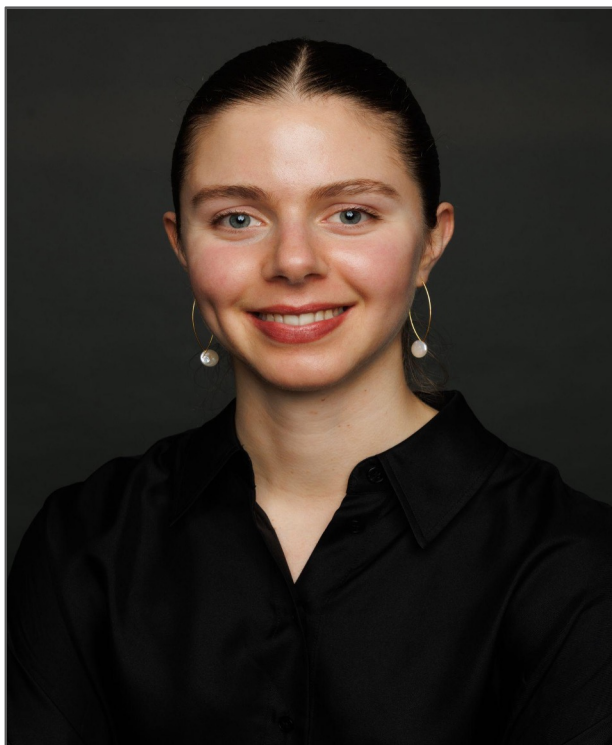
A.I. Program Aims to Break Barriers for Female Students

A new program, backed by Cornell Tech, M.I.T. and U.C.L.A., helps prepare lower-income, Latina and Black female computing majors for artificial intelligence careers.





Solution Architect
AWS
Mentor



Machine Learning Engineer
Veolia, North America
Mentor



Sandra Hawkins
MIT Lincoln Laboratory
**Challenge Project
Advisor**

Bridge to Studio

Students apply ML Foundations course to matched company projects for the Fall and also gets connected to a Career Mentor





Fall Program Activities

- We have source 47 Machine Learning Projects for our cohort of 234 students.
 - 30 companies with 64+ Project Advisors (backgrounds vary from CEO/Founder to Head of Data Scientists to Machine Learning Engineers) to provide project oversight with scoping the real world project challenge
 - Companies include: Cadence, MathWorks, Microsoft, MIT IBM Watson AI, Salesforce, Michelin, Novartis, etc.
 - Facilitating ~200-300 people to work together in lifting up the next generation of AI/ML leaders
- We have 32 career mentors.
 - Companies representative include: Women's NBA, Draper, Cadence, etc...
- Students are excited to convene together on MIT campus on Maker Days (monthly Saturday hybrid



BREAK THROUGH TECH AI AT MIT



PROGRAM CELEBRATION