INSPIRIT AI

INSPIRIT AI in Madrid!

In-Person Artificial Intelligence intensive for middle and high school students taught by instructors from Stanford, MIT, and Ivy League universities.

Mission

WHY AI SCHOLARS?

We started Inspirit AI to inspire **students of all interests** at an early age to understand and apply Artificial Intelligence to **improve the world**. The potential to use this technology for good is limitless. We hope to bring the most recent developments in AI from courses and labs in Silicon Valley to **empower high school students globally**.

WHAT IS AI SCHOLARS?

What do self-driving cars, Alexa, and iPhone's face recognition technology have in common? They are driven by modern advances in Artificial Intelligence. AI Scholars is a **pre-college enrichment program** that exposes curious high school students globally to AI through in-person or live online intensive classes. The program is developed and taught exclusively by **Stanford, MIT and leading university alumni** and **graduate students** specializing in AI.

Why AI Now?

Whether you're interested in *law, healthcare, art,* or *economics*, AI is poised to transform almost every discipline and industry in the future. At the core of Inspirit AI's mission is to equip our students to lead impactful and successful careers. AI is already all around us today, and by the end of the program, students will understand the underlying concepts and motivations behind technology such as:
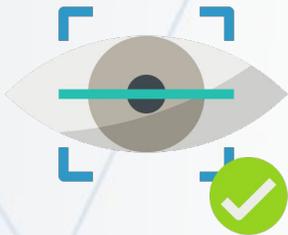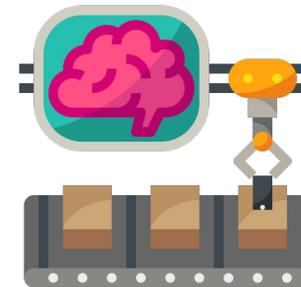

COMPUTER VISION

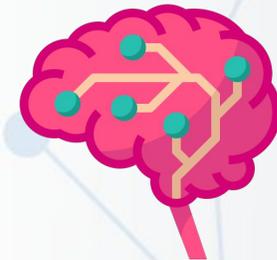Self-Driving Cars
Facial Recognition
Medical Diagnosis

NATURAL LANGUAGE PROCESSING

ChatGPT
Alexa
Siri

RECOMMENDATION ENGINES

Netflix
Spotify
Amazon

DEEP LEARNING

Google Translate
Autocorrect
Chatbots

Meet Inspirit Faculty Members

DANIELA GANELIN
Director of Curriculum
Education: *MIT* Master's in Computer Science (AI), *MIT* Bachelor's in Computer Science and Math, *MIT* Teaching License
Research: Studying economic disparities in online education, diagnosing dementia with machine learning, creating AI-generated images, and improving recommendation engines.

ANNA SAPPINGTON
Instructor
Education: *Marshall Scholar* Graduate work in AI/ML, *MIT* Bachelor's in Computer Science and Biology
Research: Anna was part of multiple AI labs at MIT including Aviv Regev's lab and Sangeeta Bhatia' lab. She has applied AI to genomics with the goal of mapping every cell in the human body.

GRETA FARRELL
Curriculum Developer
Education: *MIT* Bachelor's in Economics
Teaching: Has experience student-teaching in a variety of schools: urban, rural, suburban, as well as public, charter, private, and boarding. Before joining Inspirit as a curriculum developer, she taught middle and high school math from pre-algebra to precalculus and developed mastery-based curricula at the Khan Lab School.

ARTEM TROTSYUK
Instructor
Education: *Stanford* PhD candidate in Bioengineering, *Stanford* Master's in Computer Science, *UC Davis* Bachelor's in Biology, Minors in Communication and Writing
Research: Using bioengineering tools coupled with artificial intelligence to improve wound healing outcomes in diabetic patients. Developing AI-powered smart bandages with a closed-loop system for personalized medicine.

AKSHAY JAGADEESH
Instructor
Education: *Harvard Medical School* Postdoctoral Neuroscience Fellow, *Stanford* PhD in Vision Science
Research & Teaching: Analyzing artificial neural networks and understanding what computations the human brain performs to give rise to perception. Helped design and teach several courses at UC Berkeley and Stanford ranging from computer vision to neurobiology to the science of meditation.

CHRIS PIECH
Faculty Advisor
Education: *Stanford* PhD in Artificial Intelligence, *Stanford* Bachelor's in Computer Science
Research & Teaching: Assistant Professor of Computer Science at Stanford, teaching introductory programming, probability, and artificial intelligence courses. Faculty advisor for the Stanford course, "Artificial Intelligence for Social Good."

Building a Global AI Classroom

We've had the fortune of guiding **students** with interests across healthcare, robotics, art, economics, journalism, and more from **70+ countries** in learning fundamental AI concepts, preparing for college admissions, and applying their passions to achieve social good. **45% of our students come to the program with no previous background in CS.**

A Global Learning Community

70+	**400+**	**75+**	**150+**
Students from 70+ Countries	400+ Instructors from MIT and Stanford	75+ Partner Schools	150+ students accepted to Ivy League schools

Year 10-13 Curriculum

Programs run for **10 sessions of 3 hours each** on weekdays.

In the first half of the program, students learn **AI's core technologies** including **applications**, **foundational concepts**, and **programming tools** through live in-person classes and collaborative mini-projects.

In the second half, students complete a **mentor-led AI for Social Good project** where they apply the programming skills developed in Part 1. Students also attend workshops aimed to provide inspiration for **college essays** and **AI-related careers**.

First Half Program Components
- ■ AI Applications
- ■ Conceptual
- ■ Programming

Session 1	Session 2	Session 3	Session 4	Session 5
Introduction to Artificial Intelligence	Machine Learning Foundations	Classification	Computer Vision	Natural Language Processing
	Linear Regression	Logistic Regression	Neural Networks	NLP: Text Classification
Python and AI Libraries	Regression and Hands-On Coding	Regression and Hands-On Coding	Neural Networks and Hands-On Coding	NLP and Hands-On Coding

Second Half Program Components
- ■ AI Applications
- ■ AI Project Building
- ■ Interactive Workshops

Session 6	Session 7	Session 8	Session 9	Session 10
College Prep Workshop	AI and Ethics Workshop	Instructor Spotlights	AI Research + Spotlight Workshop	Final Project Presentations
Literature Review	Data Exploration	AI Model Building	Scientific Communication	
AI for Social Good Project Introduction	Mentor-Led Hands-On Project Work	Mentor-Led Hands-On Project Work	Mentor-Led Hands-On Project Work	College and Career Panel

Our Year 10-13 Program

AI FOR SOCIAL GOOD PROJECT

Students develop fundamental AI skills and apply them to a **mentor-led group project** that they later **present** during a **final showcase**. Students gain access to an **online portal** for continuous learning after the program.

AI CAREERS AND VENTURES

Students learn from **industry** and **academic guest speakers** about AI's impact in domains such as healthcare, transportation, and chat applications. Students receive guidance on pursuing various careers that involve AI.


PRE-COLLEGE PREPARATION

Students attend **workshops** aimed to prepare them for leading CS and AI programs internationally. Students gain inspiration from successful Stanford and MIT **admissions essays** and learning how to communicate their project experiences effectively.

Featured Projects

AI can apply to almost **every discipline** from health to art, finance, and more. Our team of graduate students at leading U.S. universities have **diverse experiences** and will **mentor projects** in a variety of domains.
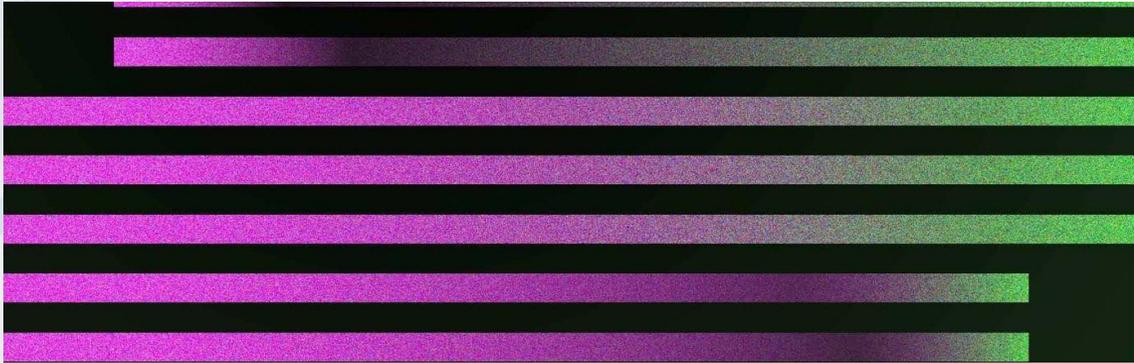
AI Chatbots for Education

Creating your own AI-powered study assistants, while keeping in mind important ethical considerations.

Project developed by
Phil Bell
B.A. Oxford, M.Ed. Harvard

AI + Pneumonia Detection

Creating a computer vision system to help diagnose pneumonia from chest X-rays.

Project developed by
Brianna Chrisman
Ph.D., Stanford

Featured Projects

Business, Finance, & Sports Analytics

Using AI for data-driven player optimization for professional teams.

Project developed by
Sebastian Bedoya
B.S., Caltech

Searching for Exoplanets

Using data collected from NASA's Kepler telescope to train AI to detect exoplanets.

Project developed by
Kaylie Hausknecht
B.S. Harvard University

Year 7-9 Curriculum

In this project-based program, we will explore the foundations of machine learning & explore different applications of machine learning models.

In the first half of the course, students **learn AI's core technologies** including applications, foundational concepts, & programming tools through live online lectures and coding labs. Students will not only learn about different types of machine learning models, but also **apply those models to real data sets.** In the second half of the course, students will complete an **instructor-led group project applying AI to a particular discipline** (e.g., movies, disaster relief, art, education, sustainability, etc.), utilizing their new programming skills!

Program Components

- ■ AI Applications (dark blue)
- ■ Conceptual (yellow)
- ■ Programming (orange)
- ■ AI Project Building (purple)

Session 1	Session 2	Session 3	Session 4	Session 5
Introduction to Artificial Intelligence	Intro to Chatbots	Chatbot Lab	NLP & Ethics	Heart Disease Lab
	Chatbots for Healthcare	Machine Learning & NLP	Social Chatbot Lab	Computer Vision
Intro to Python with Turtle	Chatbot Lab	Social Chatbot Lab	Machine Learning for Healthcare	Teachable Machine

Session 6	Session 7	Session 8	Session 9	Session 10
Assistive Tech	Project Introduction	Machine Learning Bias	Presentation Workshop	Final Project Presentations
Computer Vision Lab		Instructor Spotlight	Project Work	
Self-Driving Cars Lecture & Lab	Project Work	Project Work	Creating Your AI Project Workshop	Career Workshop

Featured Year 7-9 Projects

AI + Disaster Relief

Leverage machine learning to help first responders allocate resources in crisis situations

AI + Art

Train models to recognize and complete sketches to create interactive & accessible computer systems

AI + Public Health

Use computer vision to determine whether people are wearing masks properly to improve public health

Inspirit AI in Leading Schools

We're proud to collaborate with schools and districts to offer **summer programs**, **in-school elective, after school programs** taught by our experienced top university AI instructors! Among our many collaborations include:

THE BRITISH SCHOOL MANILA

KHAN LAB SCHOOL

Winchester Thurston School

Inspirit partnered with British School Manila, a premier school in the Philippines, to bring an **after-school AI enrichment** activity to high schoolers.

Inspirit worked with Sal Khan's project-based school to offer a full-year **school-day elective** in the foundations and applications of machine learning.

Inspirit collaborated with Winchester Thurston to integrate **capstone projects** into its innovative course "Machine Learning and the Social Implications of AI"
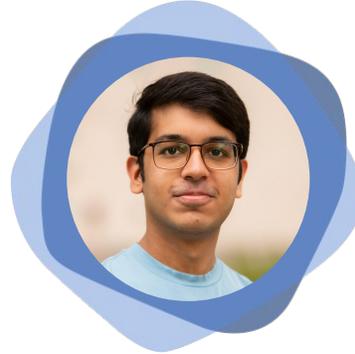
Student Highlights

Kalissa G.
Now at Stanford University
Inspirit Project: AI + Social Justice

"I collaborated on an AI project that focused on social justice ... The program enhanced my interest in pursuing a degree in Computer Science during my freshman year at Stanford."

Arnav Das
Now at CalTech
Inspirit Project: AI + Exoplanet Discovery

"The Inspirit program enabled me to dive into the math behind Machine Learning and develop practical skills that I have applied to further AI passion projects including Deep Learning for planetary research."

Ananya G.
Now at Princeton University
Inspirit Project: AI + Journalism

"The summer program was a great experience ... I enjoyed dwelling on ethical questions and learning about applications of AI directly from people working to create them."

Stanford University

Caltech

PRINCETON UNIVERSITY

Instructor and Student Experiences

Sehj Kashyap (Stanford MS in BioEngineering), Sedinam Worlanyo (Stanford MS Education)

Aashi Tyagi (Student, Dubai and Currently studying CS and Business at UIUC)

Alumni Case Study 1:
Demonstrate unique passion to college admissions committees

Victor Chen
Currently Attending:
Stanford University

Stanford University

AI + Self-Driving Cars

How did the AI Passion Project help you stand out in the college admissions process?

"My AI Scholars project helped me gain introductory research experience and **develop foundational technical skills that were useful in later internships.** It gave me more confidence in exploring AI, leading me to take an interest in computer vision and machine learning. The experience also introduced me to new ideas and perspectives in the field."

How did the AI Scholars Program impact your college preparation?

"AI Scholars was **my first introduction to AI, sparking my passion for the field and setting me on my current path.** It gave me a foundation in machine learning and problem-solving, which shaped my academic interests and **led me to pursue AI and computer vision in college.**"

Watch the video below to hear more about Victor's journey from Inspirit AI to Stanford University

Victor Chen

Inspirit AI Scholars Alum

Stanford University

Now at Stanford University
Computer Science

Colleges Applied to:
Stanford, UC Berkeley

Colleges Admitted to:
Stanford, UC Berkeley

Featured Inspirit AI on College Application:
Activities Section (i.e. included Inspirit as a high school activity)

Inspirit AI Project Completed:
Computer Vision for Self-Driving Cars

Alumni Case Study 2:
Display collaborative skills through teamwork

Nina Khera
Currently Attending:
Harvard University

AI + Cancer Diagnosis

How did the AI Passion Project help you stand out in the college admissions process?

"My experience with AI as part of this program helped me learn the necessary skills to do later **AI-focused internships, research, and so much more.** I got asked tough AI-focused questions on my interviews, and the knowledge I gained from Inspirit AI helped me answer them. I also think that **the signaling of having a program like this on my resume helped me prove my credibility to interviewers.**"

How did the AI Scholars Program impact your college preparation?

"I learned about my interest in AI partially due to the program, which caused me to do more work in coding later on. I think both the program and this later work caused me to become **more of a competitive applicant for college.** Also, I felt that **the experience of carrying out a full project from start to finish was super valuable** - I learned about troubleshooting, time management, and so much more."

Watch the video below to hear more about Nina's journey from Inspirit AI to Harvard University

Nina Khera

Inspirit AI Scholars Alum

HARVARD UNIVERSITY

Now at Harvard University
Computational Neuroscience

Colleges Applied to:
Harvard University

Colleges Admitted to:
Harvard University

Featured Inspirit AI on College Application:
Activities Section (i.e. included Inspirit as a high school activity)
Major (i.e. applied as a CS major)
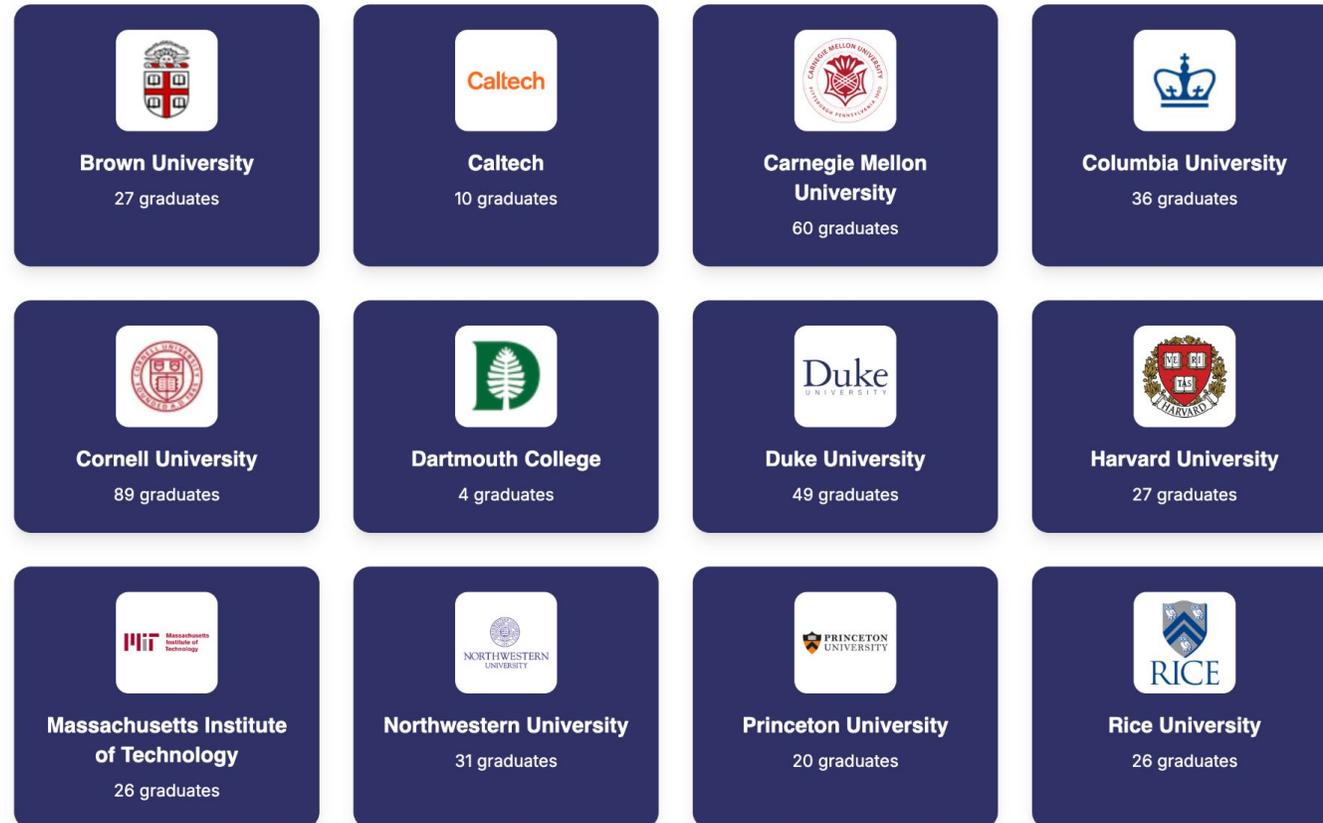Internships (i.e. Inspirit AI helped prepare for STEM internships)

Inspirit AI Project Completed:
CNNs for Cancer Diagnosis

Where Inspirit AI Alumni Continue Their Journey

View more admissions results of our Inspirit AI Alumni

Brown University
27 graduates

Caltech
10 graduates

Carnegie Mellon University
60 graduates

Columbia University
36 graduates

Cornell University
89 graduates

Dartmouth College
4 graduates

Duke University
49 graduates

Harvard University
27 graduates

Massachusetts Institute of Technology
26 graduates

Northwestern University
31 graduates

Princeton University
20 graduates

Rice University
26 graduates

Inspiring the Next Generation of Leaders: From High School to Higher Education

Our scholars come from schools from around the world and often attend the world's most prestigious higher education institutions. Here is a snapshot of some of our students' journeys.
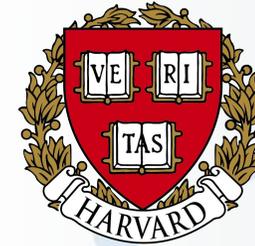
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