BIG RED EDUCATION

BEYOND THE CLASSROOM.

STEM Research Accelerator

Learn with Researchers & professors from:

MIT | Cornell University | PRINCETON UNIVERSITY

WHAT IS THE STEM RESEARCH ACCELERATOR?

Bootcamp Highlights

The STEM Research Accelerator is a high-intensity, 2 week research incubator designed to transform students from passive classroom learners into confident contributors in STEM. Through a structured and immersive approach, students engage with real-world research practices while building critical thinking, problem-solving, and analytical skills essential for academic success.

Learning Experience & Outcomes

By blending Ivy League–inspired frameworks with advanced AI methodologies, the bootcamp equips students to navigate modern research with confidence. Participants gain exposure to research workflows, data analysis, and emerging technologies, enabling them to explore innovative ideas and contribute meaningfully to the evolving STEM landscape.

Start your Research Journey Today!

BOOTCAMP **DETAILS**

On Completion, students get a **Certificate of Achievement** from Big Red Education, and the Ivy Learning Lab.

Opportunity to get an **LOR** from course intructors who are researchers at top institutions like Stanford, MIT and more!

7th Sep - 18th Sep 2026
6:30pm - 9:30pm

Online

Grades 8-12

INR 40,000 + GST

Deadline :
15th July 2026

HOW DO THE IVY LEAGUE UNIVERSITIES LOOK AT RESEARCH?

Students who did research were **4 times** more likely than the general pool to get accepted into a top university.

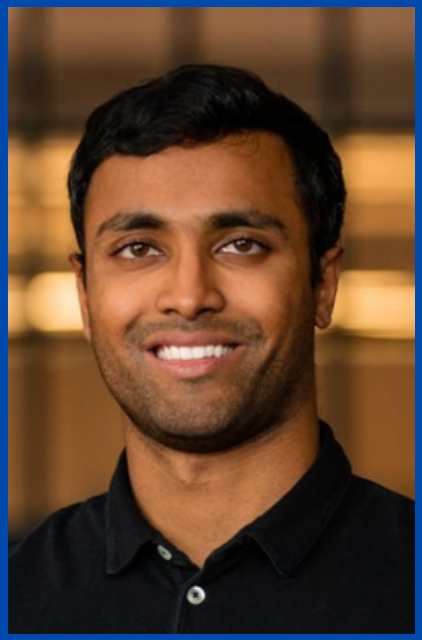

Know Your
Ivy League
Course Intructors:

Gabriel Arpino

Final year PhD student, **University of Cambridge**

Machine Learning & AI

AI Research intern, Google.



Dr. Sankalp Kota

PhD, **Drexel University**

Published **41** academic papers

- Principal Materials Engineering

Dr Andrew Jahn

Carleton College & **Indiana University** Alum

- Diffusion imaging
- Machine learning
- Structural analysis
- Surface-based analysis

Ms Zhang

Computer Science & Engineering, **MIT**

- Machine Learning & AI
- Computer Science & Applied Mathematics
- Hard Sciences & Engineering

Maya Gobert

Cornell University
Alum

Founder: Leadership & Innovation Lab

- Economics and Political Science

Know more about the Instructors

SUCCESSFUL STORIES OF RESEARCH ALUMS

DEREK, COMPUTER SCIENCE

Challenge:

- Derek has competed in many contests and attended many Bootcamps, but has never really experienced research before.
- He felt that his knowledge has been taught to him in an abstract setting and he would like to apply it in practical ways and solve real-world problems.

Her **paper was published by the Journal of Student Research** - High School Edition with a very high peer review score (4.5 / 5).

Got admitted into:

Massachusetts Institute of Technology

SUSAN, MUSIC THERAPY

Challenge:

- Susan, with prior research experience in science, sought to merge her passions for music and science into a cohesive project.
- She aimed to stand out among university applicants by embarking on an interdisciplinary research Bootcamp exploring the relationship between music and memory within the realm of brain science, although she lacked direction on how to begin.

Her **paper was published by the Journal of Student Research** - High School Edition with a very high peer review score (4.5 / 5).

Got admitted into:

Penn University of Pennsylvania

CENTRAL MICHIGAN UNIVERSITY

THE CURRICULUM
WEEK 1: EXPLORATION & THE EXPERT LENS

September 7 • 6:30 – 8:30 PM IST

Foundations & AI Workflows

- The Research Blueprint: Defining research purposes and methodology categories.
- AI as a Research Partner: Using AI for source synthesis without over-reliance.
- Milestone: Brainstorming ways to study a STEM topic.

September 9 • 6:30 – 8:30 PM IST

Expert Deep Dives

- ML & AI: Bayesian modeling + cognitive neuroscience
- CS & Applied Math: Google engineering + algorithms
- Activity: Designing research questions

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THE CURRICULUM
WEEK 2: RIGOR, ETHICS & SYNTHESIS

September 14 • 6:30 – 8:30 PM IST

Data Architecture & Ethical Guardrails

- Data Design: Designing experimental logs and survey logic
- Ethical Standards: Plagiarism and STEM case studies

September 16 • 6:30 – 8:30 PM IST

Funding, Formatting & Citations

- Understanding journals and funding systems
- Grant simulation exercise
- Technical writing and citation mastery

THE CURRICULUM
WEEK 2 FINALE: GRAND SYMPOSIUM

September 18 • 6:30 – 9:30 PM IST

Final Funding Simulation & Showcase

- The Pitch: Presenting projects to instructors
- Funding Gala: Peer investment simulation
- Merit Awards:
  1. Best Research Idea
  2. Best Research Methodology
  3. Best Use of Data
  4. Best Demonstration of Intersectionality

WHY SHOULD YOU PARTICIPATE?

ACHIEVE REAL RESULTS

By the end of the bootcamp, **you'll have a research project that's not only completed but also reviewed by peers and critiqued by instructors**, ensuring quality and depth.

BUILD YOUR RESEARCH NETWORK

Dive into curated networking opportunities to form research teams and **connect with potential co-authors**, paving the way for ongoing collaboration and project development.

LEARN FROM THE BEST

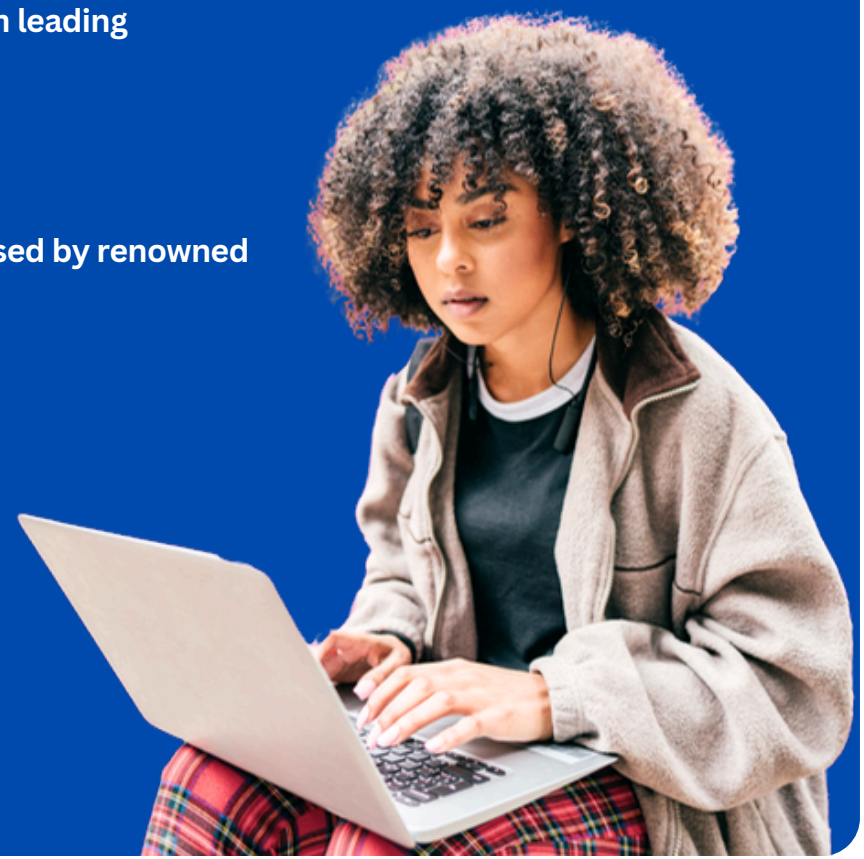
Gain **invaluable insights from professors and industry experts from leading institutions like, MIT and Cornell** enhancing your learning with real-world experience.

EARN RECOGNIZED CREDENTIAL

Complete the bootcamp and receive a **Certificate of Award, endorsed by renowned researchers**, as a testament to your hard work and new expertise.

OPEN DOORS TO FUTURE OPPORTUNITIES

Excel in your final evaluation and **you could secure a Letter of Recommendation from our esteemed professors and experts**, or even from the Director of Student Innovation, boosting your academic and professional journey.



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Apply NOW!

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