AGRP(Advanced Global Research Program) AGRP (I), (II), and (III) Available Areas For Research

Stem

- Data Science
- Physics & Astrophysics
- Biology
- Computer Science
- Architecture
- Chemistry
- Medicine
- Engineering
- Mathematics
- Neuroscience

Humanities & Social Sciences

- Economics
- History
- Psychology
- Gender Studies
- International Relations
- Environment Studies
- Philosophy
- Business
- Law
- Sociology
- Linguistics
- Education
- Classics

* Please check Application Form for updated list of topics for the topic focused program
* Students will also be able to customize their own research topic, if not currently available in the above offerings

Learn the fundamentals of AI & ML with mentors from Harvard.

Through AGRP-AI (I) Artificial Intelligence program, students learn the fundamentals of AI & ML Machine Learning from mentors from Harvard introducing topics like neural networks, exploratory data analysis, ethics in AI, and more. Students build a project in the area of their interest and work on real world projects under the guidance of mentors from top universities.

We help you think about how to use your project for college applications through work-shops and seminars and get understanding in how you can use this experience for college applications!

Stand out for college!
When you build an independent project using AI, you showcase your abilities, interests, and potential to impact the real world.

AGM Institute, LLC
3251 Blenheim Blvd, Suite 514
Fairfax, VA 22030
Phone: 571-408-0470
Korea Phone: 070-4498-1562

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AGM INSTITUTE

AGRP-AI

AGRP-AI (I) & AGRP-AI (II) PROGRAMS

Through AGRP-AI (I) & AGRP-AI (II) programs, students interact with world-class AI practitioners and build a real-world project.

MAJOR PUBLICATIONS AND COMPETITIONS

AGRP Alumni have been published in top high school and college-level journals and excelled at competitions. Here are some of their successes!

SHAUNAK
"Using Neural Networks to Accurately predict Electrical energy within Point-Absorbers"
ISEF Regeneron national finalist;
first place in regional ISEF fair

OJAS
"Exploring the role of humanin as a potential preventative and therapeutic in Alzheimer's disease"
Winner of MIT THINK competition

ZUNIAN
"Cap or No Cap? What Can Governments Do to Promote Electric Vechicle Sales"
Published in the Cornell Undergraduate Economic Review

JUSTIN
"What public political attitudes make countries prone to democratic backslidina?"
Featured on the Brown Journal of World Affairs podcast

ANNA
"How the CRISPR-Cas9 Gene Editing Cmplex Can Be Used to Treat Human Immunodeficiency Virus 1 and Sickle Cell Disease with Immune Cell Therapies and Genetic Engineering with insight into its Societal Impacts"
Published in Intersect: The Stanford Journal of Science, Technology, and Society

SALIL
"To what extent have emerging social movements caused politicians to respond with effective social change?"
Winner of LSE Undergraduate Political Review's Annual Essay Competition

AGRP-AI (I) & AGRP-AI (II) PROGRAMS

Through AGRP-AI (I) & AGRP-AI (II) programs, students interact with world-class AI ivy league PhD experts and build a real-world project.

AI in Gaming
Create a responsive video game experience

AI-Healthcare
Use convolutional neural networks to classify medical images

AI-Climate Change
Use convolutional neural networks to predict carbon dioxide emissions

AI-Finance
Predict stock prices using deep learning

AI-Political Science
Create an algorithm to detect propaganda in speeches

AI-Education
Create a voice assistant to make education more personalised increase accessibility

AI-Mental Health
Use natural language processing to create a mental health chatbot to detect depression anxiety

AI-Sports
Use computer vision to predict the outcomes in major sports leagues

5:1 student to mentor ratio

AGRP-AI (I) PROGRAMS

- **10 Week Sessions**
- Learn the fundamentals
- Explore a variety of AI application
- AI Project with a mentor
- Conducted exclusively online

week 1-2
Build a foundation in Python used for AI and understand how to execute a data science project

week 3-5
Receive an introduction to key topics in AI including regression neural networks, and natural language processing

week 6-10
Deep dive into some more complex topics (e.g. CNN, Sentiment Analysis)

Program Goal
Learn fundamentals AI and work on an AI projects in small group

Structure
Group classes with 5:1 student to mentor ratio

Duration
2 weeks Monday - Friday during summer break

Student Profile
Grades 9 - 12 & International students

Pre - requisites
None

Output
A group project with minimum 5 other students

APPLICATION PROCESS

Our program inspires ambitious AI students and connect them with AI experts in cutting-edge technologies, and promote AI for social good research projects.

STEP 1 Application
Fill out an online application form

STEP 2 Application Review

STEP 3 Admission Notification
Sent to parents and student

STEP 4 Start Program

1:1 Independent mentoring

AGRP-AI (II) PROGRAMS

- **12-15 Weeks**
- Dig deep into your interests
- Achieve mastery
- Independent AI project at a college level
- Conducted entirely online

Month 1 : Discovery & Learning
Learn key concepts in student's passion field, identify question of interest and the required machine learning model.

Month 2 : Ideas & Data Search
Start analysis of the data and work with mentor assessing feasibility of the project and resources available.

Month 3-5 : Execution
Create an end project working with mentor to troubleshoot any problems with coding, etc., and build further on ideas.

Program Goal
Create a personalized project develop an independent AI project under the mentorship of an AI expert

Structure
1:1 mentoring with an AI expert

Duration
12 - 15 weeks
1:1 Sessions with a mentor

Student Profile
Grades 9 - 12 & International students

Pre - requisites
Basic understanding of Python/ completion of AGRP-AI (I)

Output
A novel AI model in a field of student is interest, a personalised mentor evaluation assessing your capabilities

OUR MENTORS

Our AI mentors are world-class researchers and practitioners. Here are some mentor profiles.

AGM Institute has 750 + mentors from top universities