Generation AI

Nurturing future AI innovators

Generation AI
Nurturing Future Innovators

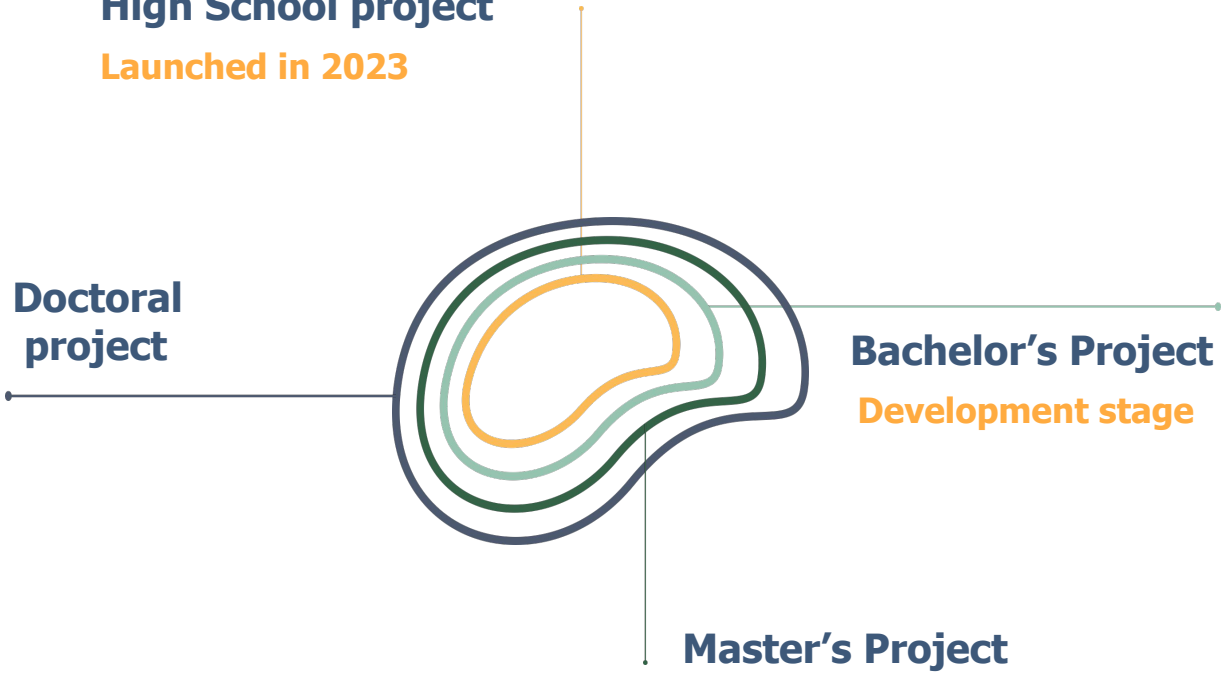
FAST DISCOVERING THE FUTURE

THE MINISTRY OF EDUCATION, SCIENCE,
CULTURE AND SPORTS OF THE REPUBLIC OF ARMENIA

Nurturing Innovator's Educational Path

High School project

Launched in 2023



Doctoral project

Bachelor's Project

Development stage

Master's Project

An **educational pipeline** launched within the **state education system** to **bring innovative and competitive global education on national level**, **ensure accessibility**, and **nurture the next generation of AI innovators** from high school to PhD levels.

High School Project: OBJECTIVES

Developing

Deliver skills in advanced mathematics and computer science as foundational knowledge for AI and overall tech proficiency

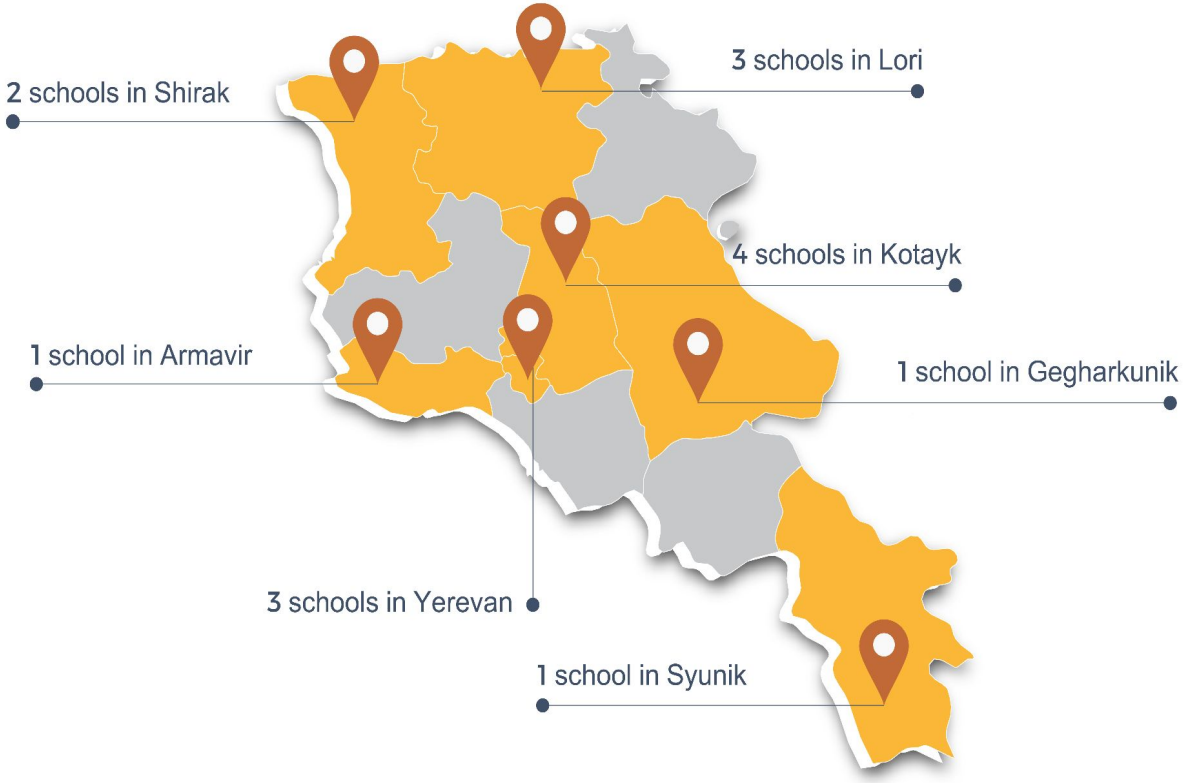
Upskilling

Provide differentiated AI education for high school students

Motivating

Raise student literacy and motivation towards AI and STEM research & innovation careers

Generation AI in Numbers



15
Schools 2023-2026

9
Schools 2024-2027

7
Regions Across Armenia

61
Teachers and Instructors

540
High School Students

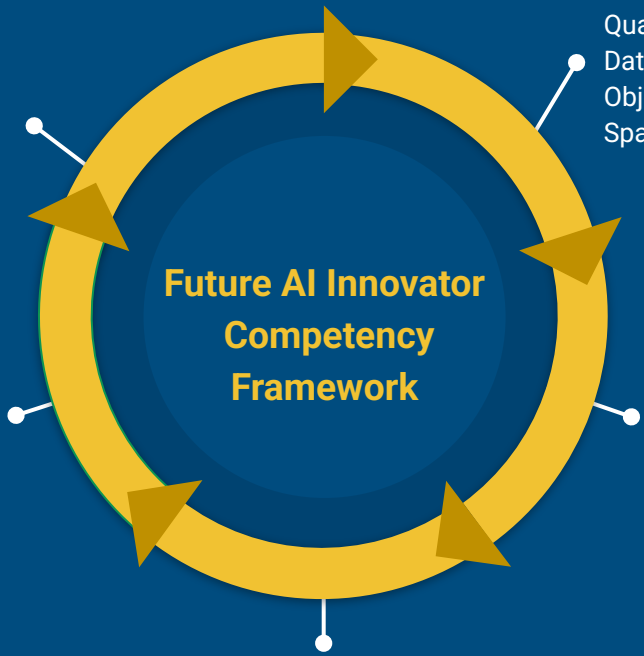
Advanced Mathematics: Enhanced, Student-Centered Teaching, and Regional Accessibility

Introduction of Two New Professional Subjects into the School Curriculum: Python Programming and AI

Comprehensive High School Curriculum

Generation AI Curriculum Matrix =

10th Grade	11th Grade	12th Grade	Additional Clubs
Advanced Algebra	**Advanced Algebra**	**Advanced Algebra**	**Applications of Algebra, Python and AI in real-life**
Python Programming Basic Level	**Python Programming** Advanced Level	**Deep Learning** Advanced Level	**English**
Machine Learning Mid Level	**ML & Deep Learning** Advanced Level	**AI Applications** Project Implementation and Presentation	**Skills Development & Career Guidance**
306 Academic Hours	324 Academic Hours	134 Academic Hours	500 Academic Hours



Interpersonal
Leadership & Adaptability
Attention to Detail
Curiosity & Inquiry
Changemaker Mindset
Self-Directed Learning

Analytical
Quantitative, Statistical & Logical Thinking
Data Literacy & Analysis
Object-Oriented Thinking
Spatial Perception

Organizational
Time Management
Project Management

Problem-Solving & Innovative
Problem Solving & Critical Thinking
Decision Making
Innovative & Creative Thinking
Entrepreneurial Mindset

Communication & Collaboration
Technical Communication
Presentation Skills
TeamWork & Collaboration Skills

The scale-up of Generation AI in up to 45 schools will ensure accessibility for 85% and more of the students.


It's a huge achievement, both for me and for my daughter.

High School Project's
First Year Impact

M&E AND IMPACT MEASUREMENT PLAN

2023-2024

	GEN AI Schools	Other Schools
Advanced Algebra	• Pre-test • Mid-Year Olympiads • End of Year Exams	• End of Year Exams (Tavush Region)
Python Programming	• Mid-Year Olympiads • End of Year Exams	
Motivation and Behavioral Change	Based on the Methodology and Guidance from **Analysis Group**	
Yearly Satisfaction Survey		

STUDENT's KNOWLEDGE EVALUATION & COMPARISON

2023-2024

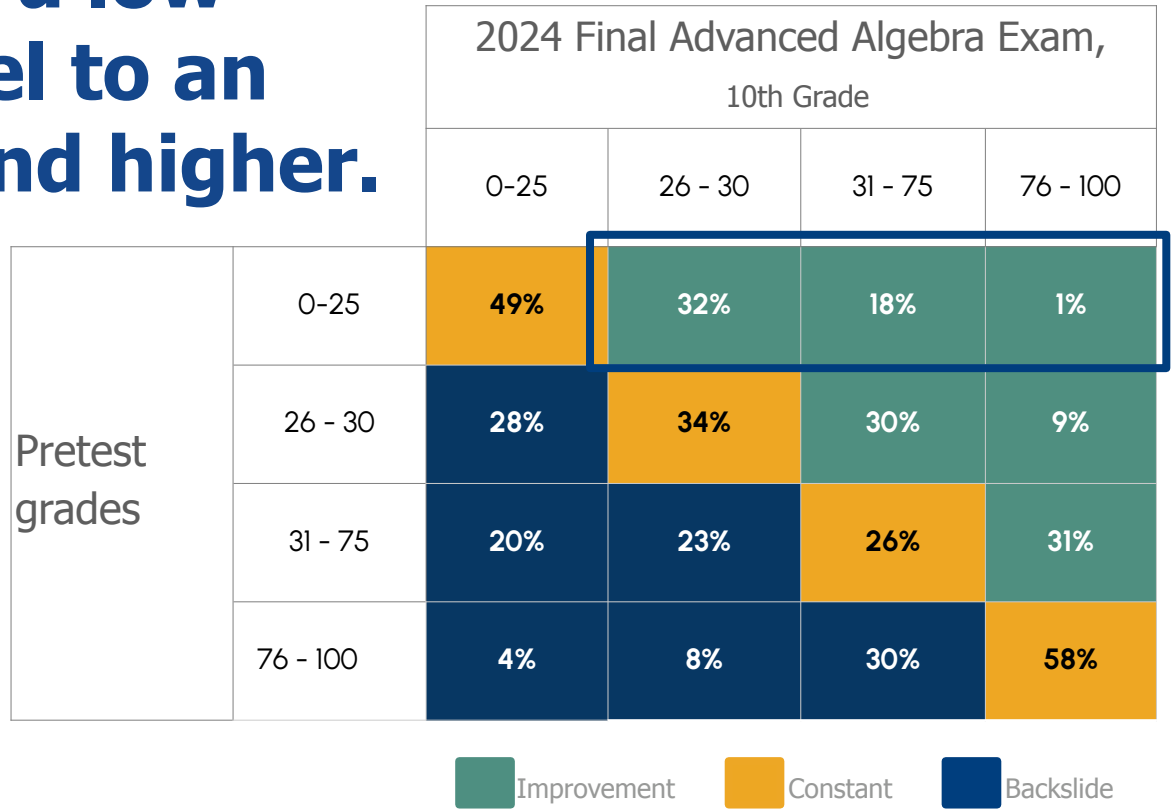
8
Region

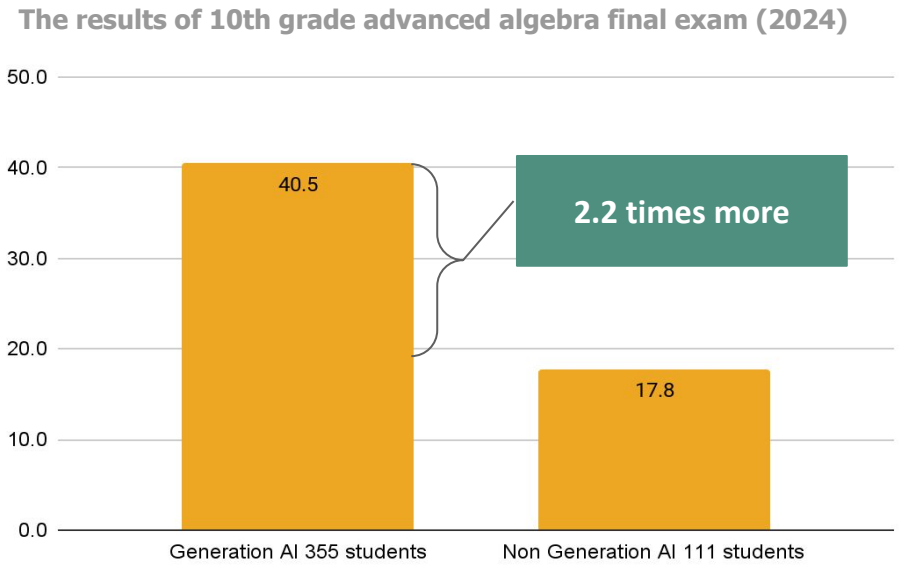
18
School

355
Program Student

111
Non-Program Students

Around 51% have advanced from a low knowledge level to an intermediate and higher.





Generation AI students achieved higher average scores in the final advanced math exam compared to students enrolled in similar program.

STUDENT’s MOTIVATION EVALUATION

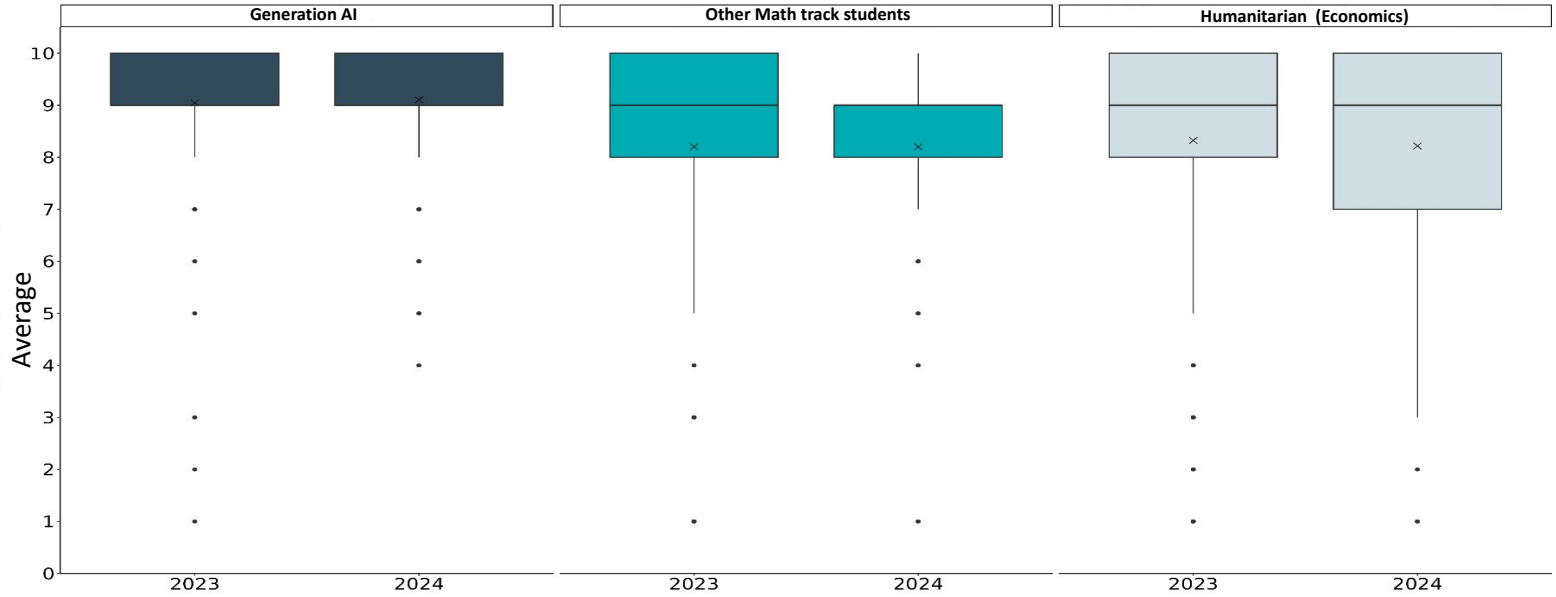
2023-2024

8
Region

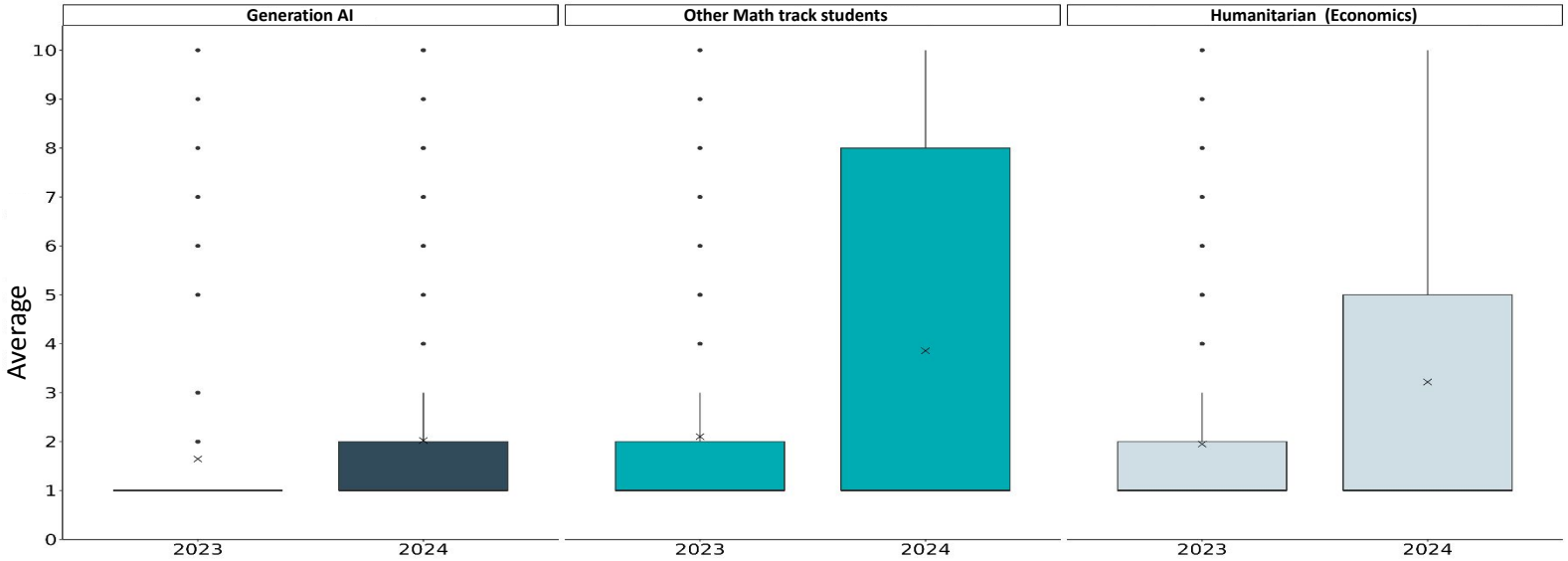
1,572
Student

24
School

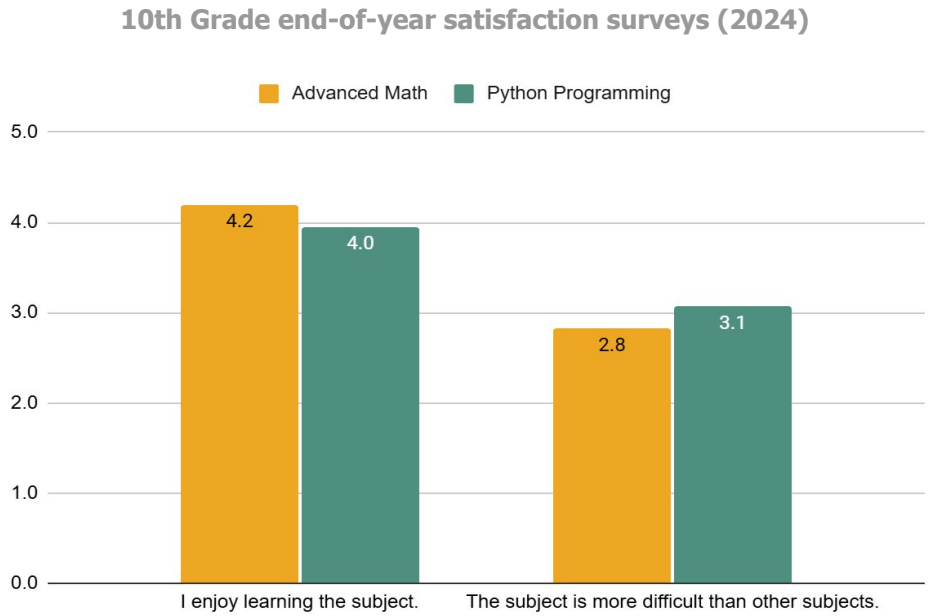
Generation AI students maintain high levels of interest in Math, while other cohorts exhibit a downward shift



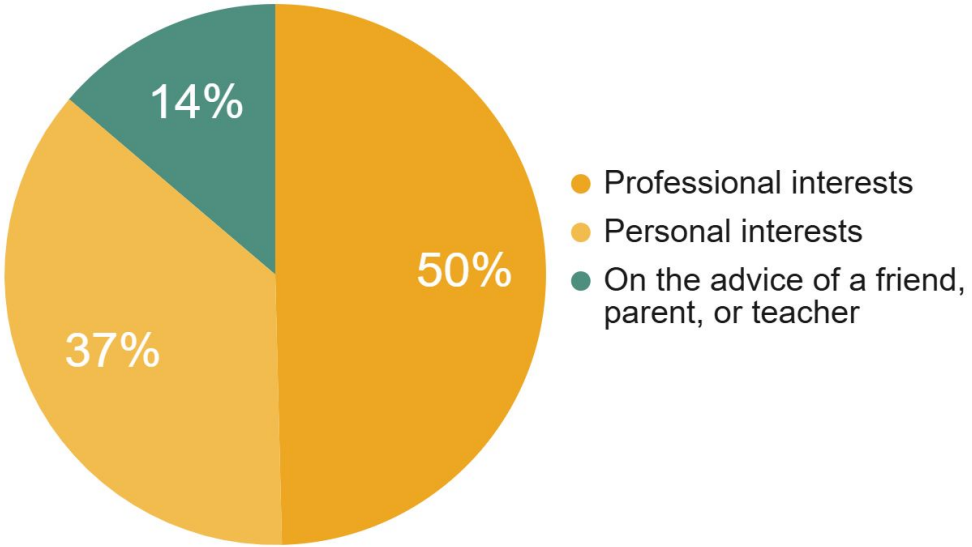
Generation AI students report less mistreatment from teachers relative to other cohorts



Most of the students are thrilled to participate in the program's lessons, despite the difficulty.



Generation AI aligns with the professional and personal objectives of the majority of students.



10th Grade end-of-year satisfaction surveys (2024)


Time to Nurture AI
Creators