# KUMAR SAMYAK

High School Student

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## Objective

My determination, creativity, and curiosity fuel my passion for robotics and AI/ML. I intend to begin my career by creating a robotic hand under the guidance of a mentor.

## Education

- Independence HS, Frisco, TX
- Class of 2026
- GPA: 5.298 (Top 6.9%)
- SAT: 1540
- Relevant Coursework: CS, PLTW Engineering, Independent Study and Mentorship (ISM)

## Skills

**Technical Skills**

- Programming: Python, Java, C, C++, Basic Web Development
- CAD & Manufacturing: Fusion 360, 3D Printing, CNC Machining
- Robotics: Wiring, Assembly, and Integration of Robotic Systems

**Soft Skills**

- Leadership
- Teamwork & Collaboration
- Time Management
- Research & Problem Solving
- Adaptability
- Communication

## Experiences

**AI Summer Program @ UTD (2024)**

- Developed personal final project - Handwritten Character Recognition (HCR) using Python
- Deep dive into AI/ML
- Networked with students and professors

**Robotics Summer Program @ UT Austin (2025)**

- Soldered and programmed a line follower robot
- Learned C++ till advanced control logic like PID
- Experienced life as a college student at UT by staying on campus

**Independent Study & Mentorship (ISM) (2024-26)**

- Researching and developing an autonomous robotic hand to hold objects using computer vision
- Educational project with potential use in industrial engineering and prosthetics development

## Extracurricular Activities

**FIRST Robotics - FRC 6901 Knights Robotics**

- Co-President and Programming Lead
- Qualified for State Championship & won Sustainability Award (2022-23)
- Ranked 20/43 & 20/29 (2023-24)
- Ranked 15/41 & 10/35 & won Rising All Star Award(2024-25)

**Computer Science**

- Completed online Harvard CS Courses
- Developed various projects (on GitHub)
- Furthering my knowledge in AI/ML and computer vision, especially for robotics

## Volunteer Activities

**Academic Empowerment Project Inc. (AEP) - NPO**

- Vice President of Technology
- Taught middle school students CS in Python
- Coded bots and programs to help make the NPO run more smoothly and efficiently.

**FIRST Robotics**

- Enhanced organization, teamwork, and technical skills in young students in FLL via my robotics team

**National Honor Society (NHS)**

- Volunteered 20 hours, and will continue to.
- Volunteered at community events, local temples, donation drives, and more.