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Autobiography:

Hey guys! My name's Pranav, and I'm from Fulton Science Academy located in Alpharetta, Georgia. Other than being known for peaches, some glorious hiking spots that my family likes to frequent, Georgia has some lovely (yet unpredictable) weather.

During 6th grade, I discovered coding, a tool through which I could harness my problem-solving abilities and bring my ideas to life on a computer screen. The next school year, I delved into Deep Learning, a subset of AI in which neural networks could be constructed and trained on data. Deep learning felt more artistic than plain algorithmic code, due to its power to self-learn from data without input from the coder. Realizing this, I delved deeper into the field. Once I learned the basics, I began to work on Deep Learning-based projects, mostly focused on real-world applications of computer vision and image generation. My first project involved training a classification model for detecting skin diseases. I stumbled around, learning about different architectures, researching numerous Python libraries, and experimenting with how I could maximize accuracy. This exploratory process led me to develop a passion for the application of deep learning to the medical field, an interest that was also piqued by my older brother, who's a neurology resident physician. My last year's science fair project investigated the use of image inpainting to improve the accuracy of an object detection model on X-rays.

Nowadays, I am investigating the concepts and mathematics behind newer models, including generative video models and liquid neural networks. As I wrap up my high school matriculation, I hope to continue my theoretical research in AI and connect what I've learned to fields and interests of mine outside of medicine. I abide by what J. Cole said, "whatever is in your path and in your heart, you need to do," and I know that AI will be a big part of my future.