Statement of Research Interest

About Myself : I am PRONOY BOSH. I am currently a final year student of my undergraduate (B.Tech) degree studying Computer Science and Engineering (CSE) at the Institute of Engineering and Management (IEM) under Maulana Abul Kalam Azad University of Technology (MAKAUT).

Research Topic : My primary interest of subject, in which I eagerly want to do research, is Artificial Intelligence (AI).

What is AI : Artificial Intelligence or AI is the new age technology that is radically changing how we live, learn, and work. AI allows machines to surpass human intelligence by augmenting human capabilities with computer power.

Objectives of AI : The primary goal of AI is to apply human intelligence to structures and machines in order to create more intelligent, quick, and efficient systems with access to a lot of data in a short amount of time. If we use AI systems correctly, the forthcoming future will be a lot more revolutionary. For example, with robots doing heavy-duty tasks, self-propelled vehicles and surgeries being performed by AI surgeons, and proactive healthcare. Smart assistants and proactive healthcare management will allow us to have a better future.

Important Branches of AI : Although artificial intelligence is a broad field with many subsets but it mainly consists of two main subsets which are Machine Learning and Deep Learning. Machine learning is the practice of getting computers to learn to do things by showing them lots of examples. It provides machines the ability to learn with experience and perform critical tasks without human intervention. Deep learning uses neural networks which empowers machines to carry out human-like tasks such as designing clothes or screening for health conditions etc. It also provides ability to mimic our brain's function.

Conclusion : So, since AI is expanding in our everyday life, it is important that we get into the field to help improve human works and deal with complex algorithms. So being a student of Computer Science, I am very excited to do research in this field and find a way to contribute to the growth of society. And it would be an honor for me to have the opportunity to complete my research at a historical institute like IIT Kharagpur.

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Pronoy Bosh

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