## Statement of Proposal

## MANSI UNIYAL

## 2nd Year, Bachelors of Electrical Engineering, IIT Kharagpur

My interest in Deep Learning hit me quite unexpectedly as I was learning Machine Learning and Data Science. During the pandemic outbreak, I was quite determined and enthusiastic about learning Machine Learning. I was already familiar with C and C++ programming languages. So, to start my journey, I got a good hold of Python language and surfed through R, mainly for statistical analysis purposes. I learned more about Data Science in domains of Data Pre-processing, Visualizing, Analysing, and many more. I completed both Machine Learning and Deep Learning specializations with great determination and passion. This eagerness to learn exponentially increased my interest in the same.

Being a student with an inclination towards Mathematics, I nurtured an excellent grasp of Probability and Statistics. I have actively participated in the competitions held on Analytics Vidhya and Kaggle; all these stages have shaped my skills in Data Analysis and Model Building significantly. I got to be part of a few Deep Learning projects under my institute's professors, which binds my interest field. I studied various architectures of different Neural Networks in the journey, which fascinated me immensely. Wherein I worked in the field of Computer Vision on, geospatial image segmentation, eye gaze type categorization, and enhancing geospatial image resolution. Analysing the data thoroughly, visualizing, and preprocessing for model building and evaluation brings about a feeling of success. It motivates me to go deeper into the same and even grasping knowledge in various other domains to explore. The very feeling of accomplishment in writing the report about all the rigorous hard work has been remarkable.

I have been an AI Intern at Jalla Labs Private Limited. Wherein, I worked on building an Intelligent Recruitment system using Natural Language Processing. It all started with working on text extraction and data structuring of resumes of various file formats using non-OCR techniques and created a query-based sorting system for the resumes. Lastly, focused on building a customised NER to tackle the problem of efficient information extraction. Apart from that, I hold the position of Machine Learning Engineer at Chi SquareX organization. I have worked on various projects mainly in the field of Computer Vision problems like object detection, action recognition, neural style transfer and other optimization problems as well.

I am an enthusiastic learner and determined to leave no stone unturned. For various projects, I have managed my time to smartly learn alongside work. I have always been an ambitious, hardworking person, along with being an analytic thinker. From this Research Guidance, I hope to learn all the skills in boosting my career as a researcher. This project will provide me with hands-on experience in the subject and be an eye-opener to explore the world's ongoing works.

I am looking forward to higher studies as a prospective, followed by a research-oriented career. Getting a chance to do a project under your guidance will help boost my future opportunities and open paths to go deeper into the field.

I am confident that I can live up to the standards and surpass the expectations set forth for the incoming students. I genuinely hope you show faith in my aspirations. I look forward to being a part of this opportunity as a passionate researcher.