At a time of submitting this application I have completed my bachelor fourth year project work title as “Rotational velocity of metal-poor star in milky way galaxy” (whose abstract is available in https://drive.google.com/file/d/1FwZVS\_GezI6NEXviaeNJsJsHXy8y7fMT/view) where I used the data from Gaia EDR3 and GALAH DR3. In my research I used Markov Chain Monte Carlo which is statistical approach to astronomical problem. To be little more specific about my research I assumed that there are three components in my data and wrote my likelihood function to be of three component Gaussian. Working on this project exposed me to new paradigm of statistical approach to an astronomy.

I am more inclined toward the statistical approach to study the