**Synopsis**

This was a very interesting problem statement because I got to learn so much about the factors affecting Solar Power Generation in a very short time. I approached the problem by learning about the parameters like GTI, GHI, etc. Then in Exploratory Data Analysis I checked each and every variable for irregularities and found that a lot of them had the value -9999. The first obstacle faced was handling those features. After a lot of thought, I decided to select the features which I was going to create the model on so as to meet the submission deadline. The result can be improved by trying out more features, knowing more about the factors affecting the generation by working together with Subject Matter Experts and testing different techniques. The final model was created using Random Forest. Random Forest gave the best result of the methods I tried in a short span of time. Besides Random Forest the methods I used were Linear Regression and LSTM based RNN Model.