**Response to Editor:**

Thank you for arranging for the article review. We have made the revisions requested to the manuscript and addressed the comments from the reviewers individually within separate documemts.

We would additionally like to share some feedback regarding the reviewers. Having incorporated the comments of the reviewers as best as we can, we would like to point out that:

* Reviewer #1 has accepted our paper with minor revisions. We note that he/she did not have major comments and was generally complementary. We have made the necessary changes requested.
* Reviewer #2 main point was for us to enhance the paper via deeper technical discussions and application, which we can appreciate. We (the authors) are both engineers by background and are fully supportive of “applied research” (which we hope this is) rather than more theoretical or abstract machine learning models. We have tried to incorporate this feedback through the inclusion of an additional paragraph where we discuss the business merits of this method.
* Reviewer #3 has asked for us to review the data from a more geological perspective. We appreciate this view, and have done our best to incorporate more of this in our paper. However, we want to point out that the reviewer must understand that our aim is machine learning and prediction, and not necessaryily a detailed deep dive into the geology or reservoir properties of the data set. The reviewer has stated that there is no need for complicated methods to analyse CO2 containment; the reviewer appears to be alone in this view as the other 3 reviewers have no such issue with the paper.
* Reviewer #4 appeared to be intrigued by our work and generally supportive, asking us to put in some arguments around the challenges of predicting Co2 injection. We have incorporated this and think it will satiasfy his/her requirements.

We hope this adequately addresses the concerns raised by the reviewers and look forward to hearing back from you.

Thank you

Dr Munish Kumar and Kannappan Swaminathan