

## Preface

This project was developed in part to satisfy the requirements of the MSc Geoinformatics Industrial Project course at the Symbiosis Institute of Geoinformatics, Pune, in the academic year 2022-23. Understanding the Suitability Modeler of ArcGIS and its reliability in real world was a motivation for me to work on the project. Also, being a geek for aviation sector, the topic was focused on my interests and how I can integrate GIS in it.

For this project, I invested a lot of time in reading numerous research papers, learning about various parameters and inputs which are required to be factored in when creating a site suitability model for an airport. The remaining time was spent figuring out how to optimise and get accurate results. I discovered a lot of methods to make this project better, which I want to use as I continue, and, perhaps, transform this report into a publishable piece.