

Preface

This project was developed in part to satisfy the requirements of the MSc Geoinformatics Industry Project course at the Symbiosis Institute of Geoinformatics, Pune, in the academic year 2023-24. Understanding the Night-time light data, Machine Learning and its reliability in the real world was a motivation for me to work on the project. Also, being a geek for machine learning, the topic was focused on my interests and how I can integrate GIS into it.

For this project, I invested a lot of time in reading numerous research papers, and learning about various parameters and inputs which are required to be factored in when mapping the final output. The remaining time was spent figuring out how to optimize 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.