

Project Proposal

Request Date	2/23/2023
Team members	1) Nikulkumar Dabhi (400490758) 2) Pavani Jana (400492032) 3) Maulik Kanakhara (400305736) 4) Rudra Patel (400406223)
Data Set	Set No. 3 and size is (250 folders, 15.8 GB)
Project Description	The goal of this project is to study the Dimensions (length, width) and Contour of the melt pool as well as Laser Power during laser-based metal additive manufacturing and predict the possible defects using CNN-LSTM hybrid model. The proposed research aims to develop a deep learning-based approach that can accurately predict and classify the possible defects in real-time, based on the analysis of the melt pool.