**Project Idea Submission**

Title: Exploring Jupiter's Moons Using Machine Learning and Deep learning.

**DESCRIPTION:**

 By analyzing a dataset, the project aims to identify patterns and relationships that can help in determining whether resources are present on these celestial bodies. This project emphasizes the exploration of Jupiter's moons through data-driven methodologies, showcasing the application of machine learning techniques to a real-world problem in astrobiology. It enhances understanding of the conditions on moons and their potential for harboring water,and other resources which are critical factors in the search for extraterrestrial life.

For data analysis in exploring Jupiter's moons, popular Python libraries include Matplotlib, Pandas, Sklearn and Seaborn for visualizations, along with NumPy for numerical operations will be used in this project.

I will use Pycharm IDE for interactive data exploration and analysis.