Project Number: 33

Project Title: Conversational AI system for renewable energy asset management

Project Clients: Jim Joseph John

Project specializations: Web Application Development;Software Development;Artificial Intelligence (Machine/Deep Learning, NLP);Cloud Computing;Robotics;Computer Vision;Security/Cyber Security;Computer Science and Algorithms;

Number of groups: 2 group

Main contact: Jim Joseph John

Background:

The project goal will be to develop a frontend and backend software and deploy in AWS cloud for asset managers. The conversational AI system will be build using any of the foundational LLMs augmented with tools developed by solar experts.

Requirements and Scope:

The frontend of the tool will be developed using React, and backend is written in python. The team is expected to research the appropriate services offered by AWS, and deploy their frontend and backend. The teams will use real data (time series and videos) from solar power plants to develop this tool.

Required Knowledge and skills:

A detailed scope will be provided once the group is formed.

Expected outcomes/deliverables:

Source code and documentation that demonstrates their work