

## ABSTRACT

Deep-sea locations often lack reliable and continuous communication infrastructure, making it challenging to establish real-time tracking systems. Developing a technology that can operate in low-connectivity areas is crucial. The project addresses the challenge of monitoring and enhancing the safety of deep-sea anglers by developing a technology-driven solution. The primary goal is to create an AI/ML-based Geographic Information System (GIS) app capable of accurately detecting and tracking the locations of deep-sea Fishermen during their maritime activities and providing reliable communication. The proposed solution leverages advanced Artificial Intelligence and Machine Learning algorithms. It analyses relevant data and provides real-time location information and uses Chatbot in any information get this AI chatbot. The GIS app aims to offer a comprehensive and user-friendly interface for effective monitoring, ensuring the safety of anglers in remote and challenging deep-sea environments. The expected result is an innovative GIS app that significantly improves the tracking capabilities in deep-sea fishing, contributing to enhanced safety measures and efficient maritime activities and technology-driven solutions. This project addresses a critical aspect of maritime safety and strives to make a positive impact on the well-being of deep-sea anglers.