



GITAM - Indian Navy Projects

GITAM has a Memorandum of Understanding (MoU) with the Indian Navy. The following projects have been successfully implemented at INS Kalinga, Navy Visakhapatnam:

- 1) AI based Customized Smart Face Recognition System for INS Kalinga
- 2) Development of A Smart Tracking System Using GPS
- 3) Customized Smart Detection System of Motor Vehicle Number Plates for INS Kalinga

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AI based Customized Smart Face Recognition System for INS Kalinga:

An AI-Powered Customized Smart Face Recognition System was successfully installed and implemented at INS Kalinga, achieving high operational efficiency and delivering results up to 50 times faster than the previous process. This advancement has saved the Indian Navy approximately 72 man-hours. The system demonstrated accurate face detection and recognition within a fraction of a second, with zero errors, enhancing both speed and reliability.

Development of A Smart Tracking System Using GPS:

A GSM-Based Vehicle Tracking System with AES-128 Encryption was successfully deployed at INS Kalinga, offering a highly secure and efficient tracking solution. Unlike traditional systems that transmit unencrypted or weakly secured GPS coordinates, this system employs AES-128 encryption to safeguard data against interception and manipulation. By integrating this robust

encryption standard, the system significantly enhances data privacy, ensuring secure, tamper-resistant tracking for Navy vehicles and critical personal security applications.

Customized Smart Detection System of Motor Vehicle Number Plates for INS Kalinga

A Customized Smart Detection System of Motor Vehicle Number Plates was successfully implemented at INS Kalinga, enhancing security and access control. This system leverages high-resolution cameras and artificial intelligence to automatically capture, read, and verify vehicle number plates in real time. Designed specifically for the Navy's operational needs, it ensures efficient monitoring, automated logging, and restricted area access management, reducing manual intervention and improving security protocols.

The successful execution of these projects highlights the strategic collaboration between the Indian Navy and GITAM University, reinforcing India's commitment to Atmanirbhar Bharat in cutting-edge technology.

