



# CRPF Launches Project "SATHI": A Pioneering AI-Driven Mental Wellness Initiative for Jawans

Posted On: 14 MAR 2026 7:31PM by PIB Mumbai

Pune, 13th March, 2026

In a landmark move for the welfare of paramilitary forces, Vaibhav Nimbalkar, IPS, DIG (Group Centre, CRPF, Talegaon Dabhade), today launched Project SATHI (Support of Artificial, Technological & Human Intelligence). Developed by the students of Nutan Maharashtra Institute of Engineering and Technology (NMIET), Talegaon, in collaboration with project leaders Dr. Vilas Deotare, Dr. Nitin Dhawas, Dr. Shekhar Rahane, Dr. Chandrakant Kokane, Prof. Pritam Ahire, and Dr. Saurabh Saoji. This Mental Distress Detection System is designed to provide timely and confidential mental health support to CRPF Jawans. The system employs a multi-modal AI framework integrating Natural Language Processing (NLP) for sentiment analysis and Convolutional Neural Networks (CNNs) for real-time facial emotion detection, with voice modulation analysis. The platform enables early identification of mental health risks and supports timely intervention to enhance personnel well-being and operational readiness.

## A First for Paramilitary Forces

Project SATHI is recognized as likely the first AI-driven wellness tool to be implemented within a paramilitary force. Focused on proactive care, the project is entirely voluntary for personnel and has been developed at zero cost to the Force.

## The Technology Behind SATHI

**The system functions through a sophisticated dual-module architecture:**

- **User Interface:** Personnel can interact with the system in English or Hindi. It utilizes Natural Language Processing (NLP) to analyze sentiment in text and real-time facial emotion recognition via webcam to calculate a mental wellness score.
- **Admin Portal:** Provides leadership with secure record management and visualized analytics to monitor overall wellness trends without compromising individual confidentiality.

## Uncompromised Data Privacy

Prioritizing national security and personal privacy, the system is engineered for offline deployment. By operating without internet connectivity or external servers, Project SATHI ensures that all sensitive data remains strictly within the protected

environment.

Speaking on the occasion, Dr. Vilas Deotare stated that the initiative reflects NMIET's commitment to socially relevant and nation-centric innovation through technology-driven solutions.

During an interaction with the senior officials of CRPF, along with Mr. Vaibhav Nimbalkar, DIG, CRPF, and Dr. Vilas Deotare, everyone appreciated the sustained efforts and initiatives undertaken by the DIG and commended NMIET for its novel project and the formal handover of the "SATHI" application to the CRPF.

Dr. Pramod Patil, Director, NMIET, highlighted that such collaborations between academic institutions and security forces demonstrate the practical impact of student-led research guided by experienced faculty.

Meanwhile, the management of Nutan Maharashtra Vidya Prasarak Mandal (NMVPM) —President Mr. Sanjay (Bala) Bhegde, Vice President Mr. Nandkumar Shelar, Secretary Mr. Santosh Khandge, Chairman NMIET Mr. Rajesh Mhaske, Joint Secretary Mr. Vinayak Abhyankar, and Executive Director Dr. Girish Desai—extended heartfelt congratulations to the team and appreciated the institution's growing contribution to academic excellence and national service.

The successful deployment of Project SATHI marks a significant evolution in how technology can be used to safeguard the mental resilience of those protecting the nation.







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