



A **#startupindia** Initiative

For Defence And Law Enforcement

For any query contact us at
info@staqu.com

ABOUT US

Founded in 2015, Staqu is a research-based startup, uniquely positioned to lead Artificial Intelligence in Indian Law Enforcement and Defense. With a proprietary AI technology stack comprising of advanced image and video analysis tools, language and text-independent speaker identification engine, speech recognition, facial recognition, and text processing APIs, Staqu has changed the way policing is done in various states.

With its products suite, policing in crime affected states such as Punjab and Uttar Pradesh has taken a predictive turn with forces making informed decisions and quick investigative actions through the PAIS and Trinetra applications. Within a year, Staqu has deployed its solutions across 8 states and has resulted in the capture of over 1100 criminals

Staqu is constantly pushing the boundaries of AI through research and filed for multiple patents. We constantly strive to better the research in the fields of text speech and image and our constant progress and excellence can be seen in the research papers being published in some of the leading conferences in the world. Staqu's Speaker Identification Engine is the worlds best speaker identification engine beating University of Oxford's accuracy by over 9%.

Our Partners



Uttar Pradesh
Police



Uttarakhand
Police



Punjab
Police



Rajasthan
Police



Telangana
Police



Dubai
Police

OUR EXPERIENCE & CREDENTIALS



02 Patents Granted



25+ Research Papers



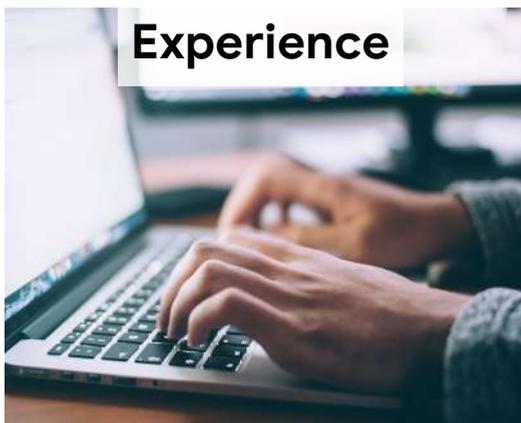
Learning Discriminative Features for Speaker Identification
Sarthak Yadav, Atul Rai

The success of any Text Independent Speaker Identification and discriminative features. In this paper we propose a Convolution VGG [1] CNNs, with key modifications to accommodate variable requirements and reduce the number of parameters, resulting deep learning system for both Text-Independent Speaker Recognition architecture under the joint supervision of Softmax loss and Center Loss suited for both Speaker Identification and Verification Tasks. We trained on hundreds of thousands of real world utterances of over 1200 speakers. Our best CNN model achieved a Top-1 accuracy of 84% on the development set. Our best CNN model achieved a Top-1 accuracy of 84% on training in conjunction with Center Loss improved the Top-1 accuracy.

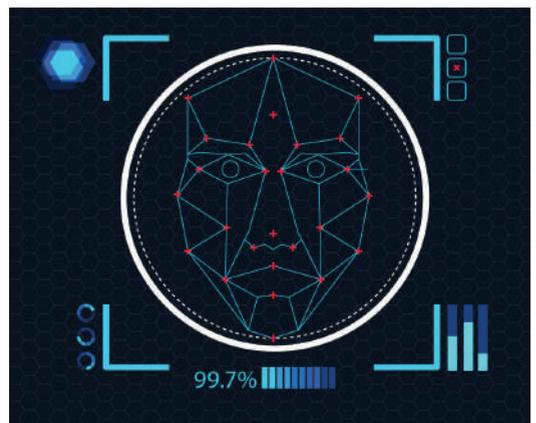
04 Research Publications
In 2018



World's Best Speaker
Identification Engine with
94.3% accuracy on VoxCeleb



22+ years Combined
experience of the team



Facial Recognition with
more than **99%** accuracy in
LFW Dataset, Youtube Faces
and other Indian databases

OUR PRODUCTS



Police Artificial Intelligence System (PAIS)

PAIS allows police to digitize centralize criminal record via online and offline methods and enable self-acting criminal search at ground zero. its live with Uttar pradesh police, Uttarakhand police, Rajasthan police, Punjab police etc

Joint AI Research For Video Instances And Streams (JARVIS)

AI powered customisable video analytics engine for security and defence forces. Its live with UP Prison Administration and Reform Services, where video feed from 3000 camera from 70 different prisons are aggregated to perform video analytics for visitor identification, violence, intrusion etc.

Police Intelligence News Extractor (PINE)

The software is live with Telangana police and Punjab police. PINE allows law enforcement agencies to streamline security and information collection. It simplifies retrieving all the relevant and contextual information regarding an entity of interest, be it an organisation, person, or region from open sources.

Speaker Identification Using AI Networks (SIAN)

SIAN is an advanced AI technology to enroll and identify the Persons of Interest(POIs) uniquely through voice

Police Advanced Research And Analytics Solution (PARAS)

PARAS is the Big Data analytics platform. The software is live with some of the police forces and assist them to retrieve the information. Its secure big data analysis software specifically designed for law and enforcement agencies.

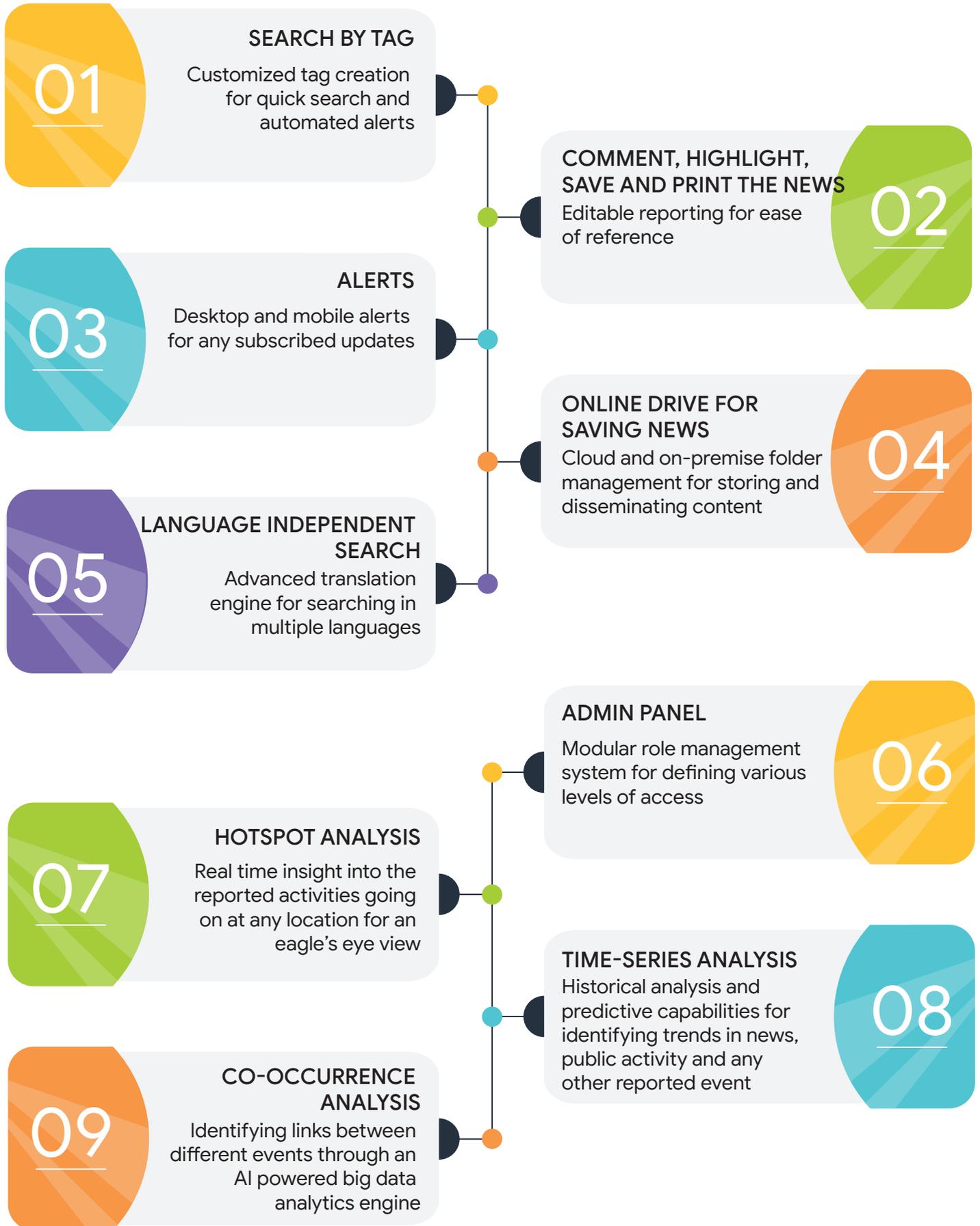
PAIS FEATURES



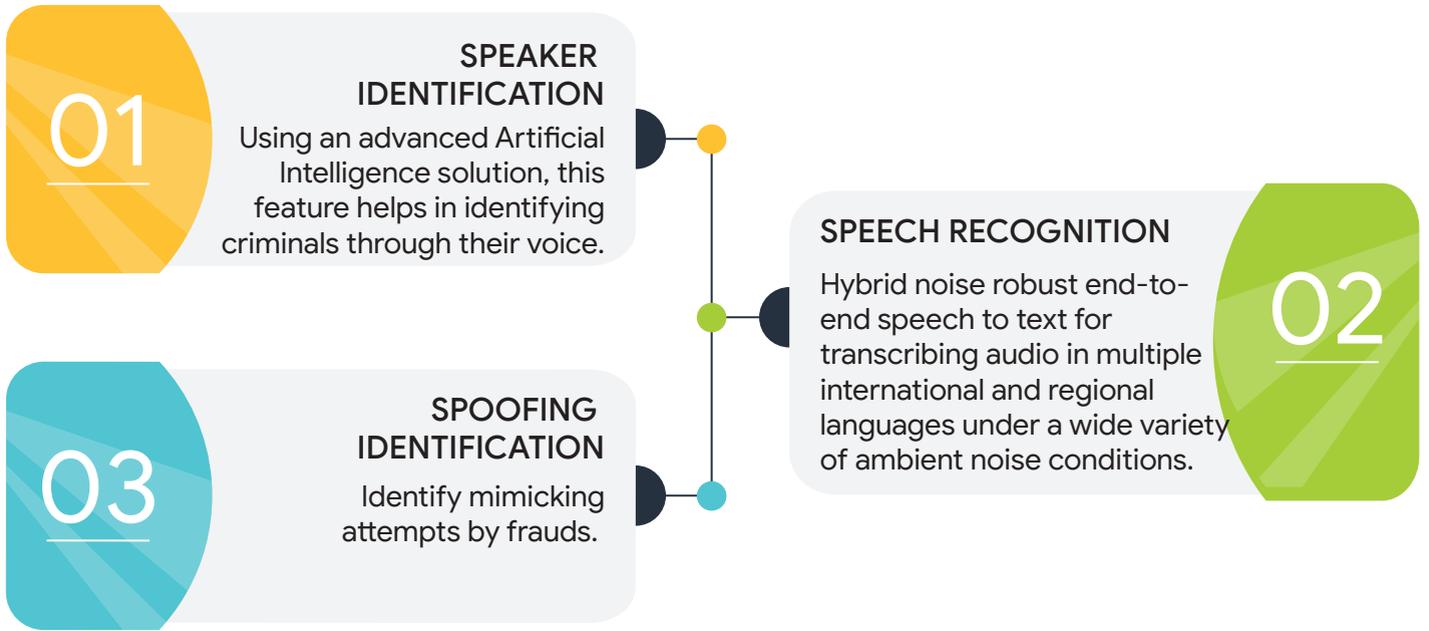
JARVIS FEATURES



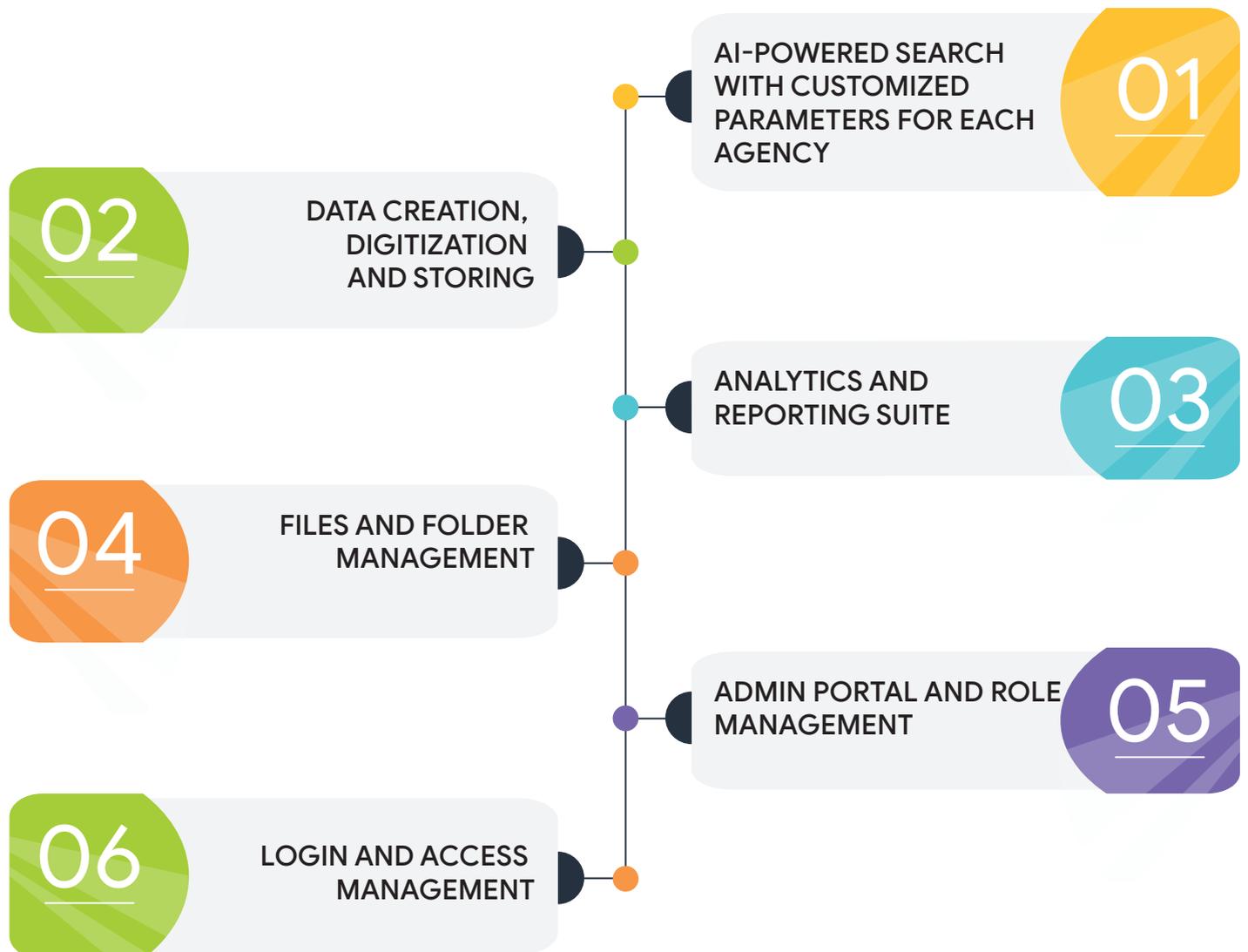
PINE FEATURES



SIAN FEATURES



PARAS FEATURES



IMPACT

MISSING

Krishna Venkatesh



Age: 27
Race: Indian (India) origin
American born (no accent)
Height: 5'8" - 5'10"
Weight: 160 lbs.
Hair color: Black
Eyes: Brown
Car: 2006 Toyota Corolla, Gray
WA plate: 759 ZDH



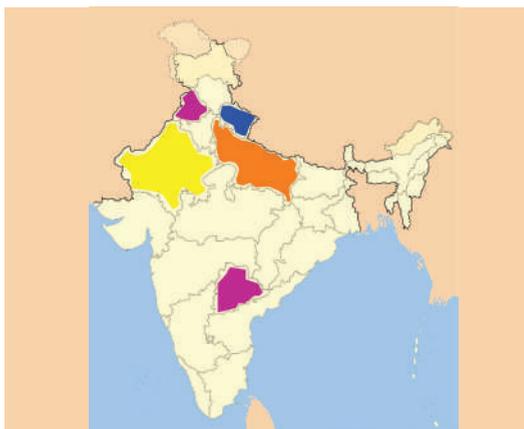
3341 Missing Person
Registered

708997 Criminals
Registered



11782 Police Officers
Registered

1100+ Criminals
Caught



05 Indian States
Covered

08 Terrorist Modules
Busted

DUBAI POLICE



Staqu and Dubai Police signing an MoU to incorporate Staqu's research stack into the day to day policing in Dubai and the rest of the UAE



Presentation to the head of National Services of the UAE on how Staqu's AI prowess can help in changing the defense and policing departments of UAE. Staqu presented predictive policing solutions that would help



Visit to the Smart Police Station in Dubai to identify how Staqu would become a core part of the policing system at Dubai

TRINETRA

Staqu launching its Trinetra application for state police to enable enhance criminal search and registration across all the police stations in Uttar Pradesh.



☰ FINANCIAL EXPRESS
Read to Lead 🔍

UP Police launch 'Trinetra', its AI-powered face recognition app to catch criminals

☰ CNBC TV18 🔍 LIVE TV

Entrepreneurship
This Gurugram-based startup is helping law enforcement agencies nab criminals with

☰ BUSINESS INSIDER INDIA

Home > Business > EXCLUSIVE: This Indian Startup H
EXCLUSIVE: This Indian startup has made a profit solving 1,100 police cases with just one round of funding

☰ TOI 🔍 OPEN APP

SUNDAY TIMES
Now, police use apps to catch a criminal
Ketaki Desai | TNN | Updated: Mar 31, 2019, 18:03 IST

Live हिन्दुस्तान.com

लूटेरों की कुंडली खंगालने में 'स्कैच से पकड़ा गया कुख्यात बिट्टू

हिन्दुस्तान टीम, गाज़ियाबाद
Last updated: Wed, 13 Feb 2019 07:33 PM IST

☰ live mint 🔍 99

The new crime buster: Tracking gait technology
10 min read . Updated: 04 Feb 2019, 08:34 AM IST

PAIS

Punjab Police receiving the Best Policing Award for PAIS by FICCI in 2018. PAIS has revolutionized the way crime investigation happens in the state through its integrated AI features.



TECH 16/08/2018 10:22 AM IST | Updated 16/08/2018 10:32 AM IST

Cops In India Are Using Artificial Intelligence That Can Identify You In a Crowd

Police departments want to link this to Aadhaar to widen the dragnet.

By Gopal Sathe



TRIBUNEINDIA.COM

Cops develop face recognition app to nab gangsters
PATIALA: To counter the growing menace of gangsters in Punjab,

INDIAN ARMY



Staqu is working closely with the Indian Army to help in satellite imagery and war-time efforts through its proprietary image analytics engine.



With Staqu's Satellite Imagery Analysis module, the Indian Army will be able to detect and extract enemy vehicle positions and type. This will help in identifying the exact course of action and severity of strike by the armed forces.

ABHED

क्रिमिनल की पूरी जानकारी फोन पर ही मिल जाने से होती है बड़ी आसानी अपराधी को ऐप के जरिए पकड़ रही पुलिस



Amit.mishra1@timesgroup.com

■ नई दिल्ली : भले ही आपको यह किसी हॉलिवुड फिल्म की कहानी लगे लेकिन अब पुलिस क्रिमिनल को एक खास ऐप के जरिए पकड़ रही है। इस तरह का पायलट प्रोजेक्ट राजस्थान के अलवर और पंजाब के कई जिलों में चल रहा है। असल में अब तक किसी भी भगोड़े अपराधी की पहचान करने के लिए पुलिस के मुख्य डेटाबेस की

मदद लेनी होती थी। इसमें काफी वक्त लगता था। इस तरह के फिजिकल डेटाबेस को मॉटेन करना भी चुनौती भरा था। ऐसे में अब आर्टिफिशियल इंटेलिजेंस पर आधारित ऐसा क्राइम डेटाबेस तैयार किया गया है, जिसे ऐप के जरिए कहीं भी पुलिस इस्तेमाल कर सकती है और अपराधी की पूरी जानकारी ले सकती है। इसे बनाने वाली गुरुग्राम की कंपनी स्टैक्वू का कहना है कि जैसे-जैसे डेटाबेस बढ़ता जाएगा, काम और भी

आसान होता जाएगा। अब तक पंजाब में 35 हजार अपराधियों का डेटाबेस तैयार किया जा चुका है। ऐप में अपराधी की फोटो, आवाज, फिंगरप्रिंट के साथ ही आवाज का सैंपल भी सेव रहता है। यह ऐप 4जी के साथ 2जी पर भी काम करता है। अलवर के एसपी राहुल प्रकाश का कहना है कि इससे काम में आसानी हो गई है। अब तक अलवर पुलिस 1000 अपराधियों तक ऐप के जरिए पहुंच चुकी है।



अभेद ऐप प्रणाली अपराधियों पर नियंत्रण की अभिनव पहल

अलवर। अलवर पुलिस ने आर्टिफिशियल इंटेलिजेंस संचालित अभेद ऐप का लॉन्च किया। पुलिस अधीक्षक राहुल प्रकाश ने बताया कि अब एक राजस्थान पुलिस या अन्य किसी पुलिस एजेंसी के पास उस तरह का कोई सॉफ्टवेयर या गैजेट नहीं था कि सीसी टीवी या अन्य किसी तरह से प्राप्त मुल्यम का कोई फोटो या छटना स्थल से हासिल किए गए फोटो या वीडियो को डेटा बैंक से क्विच का राके अभेद पर और दुनिया में पहला ऐसा सॉफ्टवेयर पुलिसेशन है जिसमें गैलरी, फिंगर प्रिंट और वीडियो दोनों का डेटा पंजीकृत करने और पहचान करने की तकनीकी उपलब्ध है। इस वाकत पुलिस अधीक्षक द्वारा अपने तत्पर प्रयास कर भारत की अग्रणी आर्टिफिशियल इंटेलिजेंस कंपनी स्टैक्वू से इस सॉफ्टवेयर का



हवलपमेंट करवाना। आतिथिक पुलिस अधीक्षक परस जैन समन्वय से अभेद सॉफ्टवेयर का निर्माण कराया गया है किताकी लॉन्चिंग किया एवं सत्र व्यावधीश हेमन्त जैन के द्वारा की गई। इस सॉफ्टवेयर की सबसे खास बात यह है कि यह पंजीकृत मोबाइल से संचालित हो सकता और थाना स्तर पर इवैरिटाबल अधिकारी

(आईओ) गूगल प्ले स्टोर से इसे डाउन लोड कर पाएंगे। पुलिस अधीक्षक राहुल प्रकाश ने कहा कि अलवर पुलिस को अभेद ऐप के रूप में एक ऐसा बेहत प्रभावशाली इतिहास मिल गया है जिसके माध्यम से पुलिस देश के दुनिया में पहचान भुगतकर रह रहे शॉरि से प्रतार अपराधी को भी कानूनी सिस्टम में फस सकती है। अभेद ऐप के

अपयोग के लिए पुलिस के प अपराधी का फोटो गिबिर् अथवा आवाज तीनों में से कि एक का होना आवश्यक है। कि तकनीक से बने अभेद ऐप पुलिस डाटा बैंक के रूप इस्तेमाल करेगी।

इसको शुरूआत अल जिले से की जा रही है। आतिथिक पुलिस अधीक्षक परस जैन लगातार समन्वय से इस कि सॉफ्टवेयरका उपयोग अभेद ऐप निर्माण में किया गया। इस तरह ऐप अभी तक राजस्थान ही खलिक् अन्य पुलिस संस्थान में है।

अने वाले समय अपराधियों की धरकड़ में पुरि के लिए ब्रह्मर को तरह काम उ वाले निवेश ए अभेद की लॉर् शनिवार को किया एवं से व्यावधीश हेमन्त जैन ने की।

ABHED has been institutional in solving crimes in Rajasthan in a timely and effective manner. ABHED's underlying technology is powered by PAIS and uses Staqu's AI prowess to aid police investigations.

AWARDS



Staqu being awarded by **Mr. Amitabh Kant**, CEO of NITI Aayog



Staqu receiving the award from Prince Edward on behalf of the British Government for excellence in the field of Artificial Intelligence



IAMI awarding Staqu for its use of **Machine Learning** in **Homeland Security**



Staqu receiving the award for being a **game changer in AI** by Centre of Excellence, Nasscom

OTHER RECOGNITIONS

Staqu getting recognized in the national media for its effort in aiding the law enforcement agencies across the country

TIMES OF INDIA

The Chase Gets a lot Easier for tech-wielding Cops now

Anjali Venugopalan
@timesgroup.com

New Delhi: It's not just lathis and guns for the police anymore. From algorithm-based apps that can identify gangs, to ones that gather information from breaking news, to cameras in lock-ups that set off an alarm when unusual movement is detected, the police are going increasingly high-tech in a bid to improve efficiency.

Instead of combing through old news reports and files to get information on a person or organisation, intelligence departments in Punjab are now using an app that generates in-

said Gurmeet Singh Chauthan, assistant inspector general (organised crime control unit), Punjab police.

The app, called PINE (Police Intelligence News Extractor) has been developed by Gurugram-based artificial intelligence (AI) startup Staqu. It can analyse mentions of a subject like the Khalistan movement, for example, on news websites and social media to assess which areas are likely to be crime-prone, said Staqu founder Atul Rai. Police in Uttarakhanda and UP have been using PINE on a pilot basis, said Rai, adding that intelligence departments in Telangana have also been using the app.

For developing situations, cops earlier had to manually

various channels. Now, the software reads headlines and tickers off news channels using optical charac-

ter recognition (OCR) and generates reports almost instantly. Telangana's police forces have been using a mobile app called TSCOP, which provides insights

like which areas are times of the day are accident-prone, crime-prone or even water-logging prone using data analytics, said Ravi Gupta, additional deputy inspector general (technical services) of Telangana police.

It then generates "crime maps" using GIS (geographical information systems), which indicate which areas are more likely to experience eve-teasing or pick-pocketing, for example, he said. This helps the police plan which routes to patrol, and at what time. Gupta said there had been a reduction in crimes like pick-pocketing as a result.

The Delhi police also maps crimes, and additional deputy commissioner Shobhit Saxena said there has

number of night calls that report street crimes as a result. In the months since the system was implemented, The Delhi police has GPS-enabled bikes that track the route police patrol, he said.

The traditional image of police tying threads between various players to identify links is becoming obsolete.

Staqu's app used by Uttar Pradesh, Uttarakhanda, Punjab and Rajasthan combs through information and identify links between accomplices and helps them identify gangs.

Lock-ups in Delhi are also being enabled with cameras that can be programmed to set off a buzzer when unusual motion is detected at night, said Saxena. This can prevent pris-



CEO of staqu technologies, Mr. Atul Rai speaking in 11th India Security Summit organized by ASSOCHAM



Letter of recognition from the British Government to Staqu for being the best AI startup in India



TECH.ECONOMICTIMES.INDIATIMES.COM
Staqu builds an Android smart glass platform to help police identify criminals - ETech

Staqu builds an android smart glass platform to help police identify criminals - ETech



Mr. Atul Rai CEO and Cofounder at Staqu, got the invitation from British high commissioner to India Sir Dominic Asquith to speak about the work and AI technologies we are doing in Staqu.