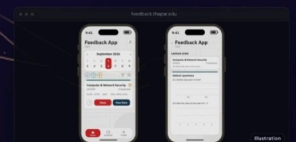
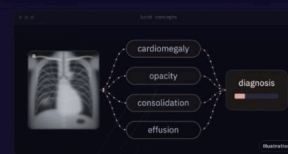
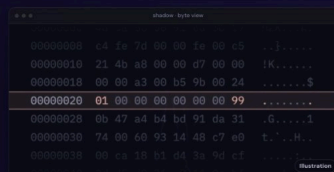
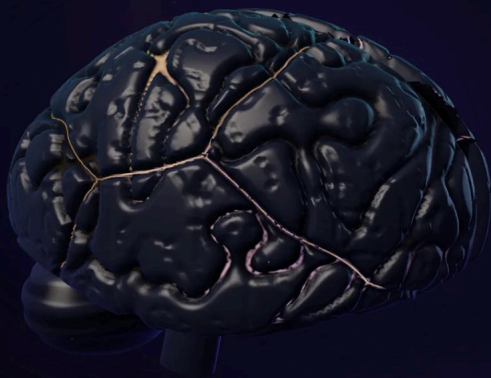




Sachkhand Labs

INDEPENDENT TECHNOLOGY STUDIO

ideas turned into real products



Big ideas deserve
exceptional engineering.

Security · Research · Software

sachkhandlabs@gmail.com
sachkhandlabs.com

We're an independent studio for *security*, research, and the software around them.

3

solutions of our own, ready to license

10,000+

students use the feedback platform we built for Thapar

95%+

less time spent scheduling exams at Thapar

Clients Thapar Institute of Engineering and Technology · Amrit Sincho Farms

↑ *our first client, since 2023*

What we *do*

Security Engineering

Secure design for everything we build, code review, and penetration testing of sign-in and access control.

Seen in SHADOW · Exams Platform

Research & Prototypes

Datasets, prototype models and papers, from the first experiment to publication.

Seen in LUCID · BEACON · SHADOW

AI & Automation

Machine learning models whose predictions can be checked, and automation for repetitive work.

Seen in LUCID

↑ *every prediction comes with its reasons*

Web Development

Web portals, mobile apps and online shops, with the backend and admin tools behind them.

Seen in Exams Platform · Feedback App · Amrit Sincho Farms

How a project *runs*

01

Research

We study the problem, the data and the people involved, and write down what "done" means.

02

Threat model

Before any design, we list what could go wrong, who might attack it, and what has to be protected.

03

Secure design

The system and the screens are planned around those risks, and we agree the scope.

04

Build

Development in small working pieces you can try as they arrive.

05

Test and hand over

Code review, tests and penetration testing before release, then deployment, documentation and upkeep.

Our solutions

Products we license and adapt to your setup. Terms are agreed with each customer.



Shows the idea, not model output

Pilot

runs on your own samples

O

hand-built features

PE

Windows executables

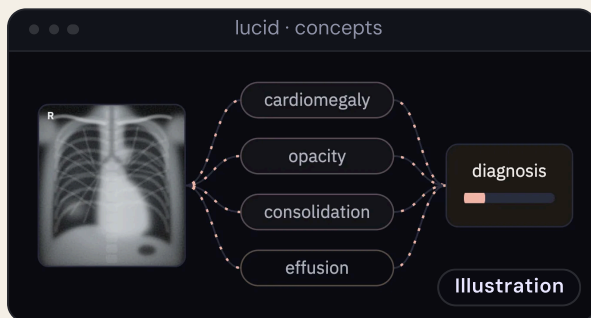
SOLUTION · MALWARE DETECTION

SHADOW

Malware detection from raw bytes

A foundation model that learns to recognise malware directly from the raw bytes of executables.

Available to license or pilot



Shows how a concept bottleneck is used, not model output

4

stages from report text to concepts

14

chest X-ray findings

3

states per concept

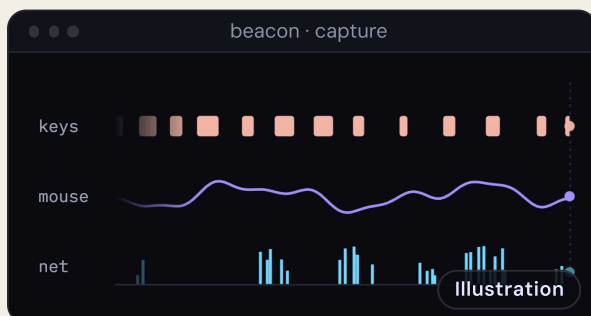
SOLUTION · EXPLAINABLE MEDICAL IMAGING

LUCID

Explainable AI for chest X-rays

The model names the findings it sees in a chest X-ray before it predicts a label, so a clinician can check, and correct, its reasoning.

Available to license. Not a medical device



Shows the kind of signals recorded, not real samples

442 GB

open data

4

synchronised streams

2

DOIs: dataset and logger

SOLUTION · BEHAVIOURAL DATA

BEACON

Behavioural fingerprints from gameplay

442 GB, free to download

A 442 GB open dataset of keystrokes, mouse movement, network traffic and screen recordings from competitive Valorant play.

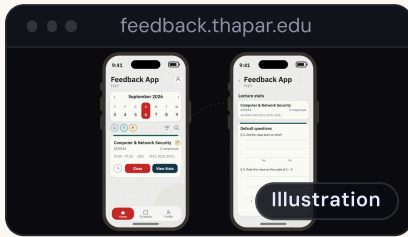
Available for custom data collection

The dataset is open on Hugging Face. Custom collection, and support for the capture suite, are what we sell.

Our clients

Platforms and apps our clients use every day.

Pictures marked Illustration are drawings, not screenshots: client screens carry real people's data.

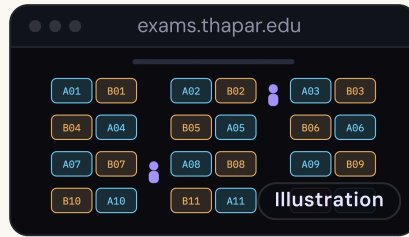


Thapar Institute of Engineering and Technology

Feedback App

Lecture-by-lecture course feedback for Thapar, with live statistics for faculty.

● Live at feedback.thapar.edu



Thapar Institute of Engineering and Technology

Exams Platform

Datesheets, invigilation duties and seating plans for Thapar's exams, in sync with the university ERP.

● Live at exams.thapar.edu



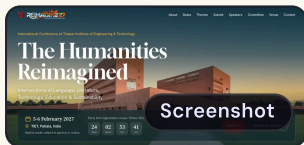
Amrit Sincho Farms, vermicompost

Amrit Sincho Farms

A ledger app that replaced the paper registers of a vermicompost business.

● Ledger app in daily use, online shop ready

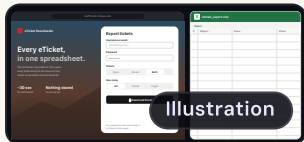
Also built for Thapar



REIMAGINE 27 conference site

reimagine.thapar.edu

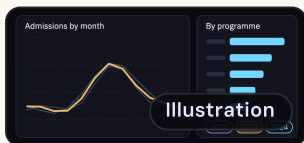
The site for Thapar's international humanities conference. Every detail lives in one config file, so the next conference is a one-file edit.



Staff tickets

stafftickets.thapar.edu

Puts every ticket and its whole conversation into one Excel file, and sends one reply to hundreds of tickets at once.



Admissions dashboard

Three years of Thapar's admissions data, cleaned and turned into interactive dashboards the university uses for planning.

Tell us what you're trying to *build*.

sachkhandlabs@gmail.com

↪ no form needed

sachkhandlabs.com