

Swayam Siddharth Waghchaure

Product engineer — *calm interfaces* for noisy systems.

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SIGNAL / NOISE



PROFILE

Engineering undergraduate in Mumbai, working where interface design meets applied ML. I build the calm layer over messy systems: a TV app that ends the scroll, a night-travel app that stays silent until something is wrong, and a classifier that separates real faults from noise. Most of my attention goes to the last mile — the empty state, the failed upload, the one sentence that tells someone what to do next.

YOUREXTBINGE

83 titles · 7 moods · 0 network calls

ROGUE PROTOCOL

0.6832 val F1 · team result

QUIET CHECK-IN

5 safety factors · 6 transport modes

SELECTED WORK

03 PROJECTS / 2026

01 YourNextBinge

2026 REPO

TV-first recommendation app · Amazon Vega / Fire TV

- Built a 960×540, D-pad-only app that turns 83 titles and 7 moods into a five-item shortlist, with a one-line reason for every pick.
- Designed a deterministic recommender with weighted scoring and a fixed relaxation ladder; the UI never shows an empty list and makes zero network calls.
- Covered scoring, relaxation order, navigation, and rendering with a Jest suite; kept the catalog and mood coverage under test.

STACK / React 19.2 · React Native 0.83 · Amazon Kepler 4.0 · TypeScript 5.8

02 Rogue Protocol

2026 TEAM OF 4

Fault-vs-noise classifier · SMLRA × Abhiyantriki 2026

- Shipped a classifier for 3,000 unlabelled ship logs; validation F1 0.6832 at threshold 0.54, +0.081 over the LogReg floor. Team result.
- Owned submission integrity as captain: threshold sign-off, checker-gated CSV, upload log, and final card; every upload passed TRANSMISSION VALID.
- Led the Round 2 orchestration layer across triage, memory, scheduling, and notifications, with handover and timeline reports generated from real traces.

STACK / Python · pandas · scikit-learn · HGB + SVD-64 + TF-IDF

03 Quiet Check-in

2026

Night-travel safety app · student commuters

- Built a local-first Next.js app that stays silent while a trip is on track and alerts a contact only when a check-in is missed.
- Shaped a five-step flow across six transport modes, with day/night safety scoring, route comparison, checkpoints, and a live trip state.
- Extended a vO-generated base into a complete demo with no backend; the whole flow runs on local data.

STACK / Next.js 16.3 · React 19 · Tailwind CSS 4 · TypeScript

EDUCATION

EXPECTED

Nov 2030

Engineering undergraduate

Computer / IT · Mumbai

TOOLKIT

INTERFACE

React 19 · React Native · Next.js 16 · TypeScript · Tailwind CSS 4

TV

Amazon Kepler 4.0 · Vega OS · D-pad focus · 960×540 layout

DATA

Python · pandas · NumPy · scikit-learn · HGB · LogReg · SVD · TF-IDF

PRACTICE

Git/GitHub · Jest + Testing Library · ESLint · Linux/Fedora · technical writing

METHOD

I start with the failure state: missing data, a dead network, a check-in that never arrives. Then I design the shortest path back to *confidence*.

ALSO

Campus 2050 VR CAMPUS TOUR

Stall concept and pitch for a VR tour of the college in 2050; boarding-gate set and judge narrative.

Pi Home Server CLOUD KIT

Plug-and-play Raspberry Pi cloud-kit concept; campus pre-order flow and Apps Script form.