

Akshat Tiwari

AI/ML + BACKEND ENGINEER

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PROFILE

B.Tech CSE (AI & ML) student at SRMIST building backend systems, applied AI products, and real-time interfaces. I work across models, data, APIs, and product surfaces, with clear ownership and evidence-led delivery.

SELECTED PROJECTS

HireSense

BACKEND & AI ENGINEERING | THREE-PERSON TEAM

Python / Flask / PostgreSQL / OpenAI / WebRTC / Socket.IO

- Built secure Flask and PostgreSQL services for a role-aware recruitment platform, including JWT/RBAC, connection pooling, rate limits, and HTTP hardening.
- Implemented resume parsing, match scoring, generated assessments, and the backend paths supporting coding challenges and evidence-based proctoring review.
- The platform connects seven role-aware workflows with coding challenges, live proctoring, and reviewable evidence.

EVIDENCE

1st place - CYGNUSA Elite Hire, SRMIST (INR 10,000 team prize)

Trace

ML PIPELINE + INTEGRATION | THREE-PERSON TEAM

Python / PyTorch / SegFormer / NetworkX / Streamlit / Folium

- Owned the road-segmentation pipeline, data tooling, evaluation, and cross-stage integration, releasing the selected model at 0.670 validation IoU.
- Integrated segmentation artifacts with the team's topology and NetworkX resilience stages, then coordinated the interactive closure-and-rerouting demo.
- Released the trained model, source, and public demo for review and exploration.

EVIDENCE

0.670 validation IoU - 76 CPU tests - Live at trace.tiwaribabu.in

TruthScope

EXPERIMENTAL REAL-TIME PHYSIOLOGICAL SIGNAL SYSTEM

Arduino C++ / Python / Flask / Socket.IO

- Connected filtered Arduino GSR readings to Python processing and a live Flask/Socket.IO browser dashboard with CSV session export.
- Stabilised and streamed filtered sensor readings at 115,200 baud across the hardware-to-browser path.
- Presented physiological arousal as an educational signal experiment; GSR does not determine truth or deception.

EVIDENCE

TechKnow 2026 - recognised as a best project / working model

PROOF AT A GLANCE

1st

CYGNUSA Elite Hire

0.670

Validation IoU

76

CPU tests

EDUCATION

B.Tech CSE

Artificial Intelligence & Machine Learning

SRM Institute of Science and Technology
2025-2029

SKILLS

LANGUAGES

Python, C++, JavaScript, TypeScript

BACKEND

Flask, REST APIs, PostgreSQL, JWT/RBAC, Socket.IO

AI / DATA

PyTorch, SegFormer, NetworkX, NumPy

PRODUCT

React, Streamlit, WebRTC, Arduino

TOOLS

Git, Linux, Caddy, release automation

RECOGNITION

1st place - CYGNUSA Elite Hire
HireSense, SRMIST - 2026

Best project / working model
TruthScope, TechKnow 2026

CREDENTIALS

HackerRank Software Engineer
HackerRank - July 2026

Neo4j Certified Professional
Neo4j GraphAcademy - July 2026

IBM AI Developer
IBM Skills Network / Coursera - June 2025

Microsoft Python Development
Microsoft / Coursera - April 2025

Google UX Design
Google / Coursera - May 2025

View verified credentials

OPEN TO

Internships and ambitious collaborations in applied AI, backend, or product engineering.

Start a conversation