

# ABHISHEK BAJPAI

CS ENGINEERING STUDENT · APPLIED AI ENGINEER

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## PROFILE

CS student who builds and ships production AI products independently — from idea to live deployment. Hands-on experience designing AI agents, autonomous pipelines, and full-stack web applications. Strong track record of translating engineering work into measurable real-world results.

## TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Java, HTML, CSS
Frameworks	Next.js, React.js, Node.js, TailwindCSS
AI / Agents	LLM APIs (Claude, Groq, Llama), Prompt Engineering, Agentic Pipelines
Backend / DB	Supabase, MongoDB, REST APIs, Appwrite
Tools & Platforms	Git, GitHub, Vercel, FFmpeg, Remotion, Telegram Bot API, Instagram Graph API
System Design	Agentic Pipeline Design, Multi-Model Orchestration, Async & Event-Driven Workflows, Human-in-the-Loop Systems, Database Schema Design, Scheduled Job Architecture

## PROJECTS

### Skill Issue — Agentic Skills Marketplace

FEATURED

skillissue.bajpai.tech · GitHub · Next.js · TypeScript · Supabase · LLM APIs

- Built a platform where developers discover, build, and share Markdown skill files that make AI agents reliable at domain-specific tasks — **86,000+ skills indexed** and growing; an automated weekly scraper pulls new skills directly from GitHub.
- Architected the full stack solo: database schema, search and tagging system, discovery UI, and SEO — deployed on Vercel.

### End2End — Autonomous Video Editing Pipeline

bajpai.tech/projects/end2end · Python · FFmpeg · Remotion · Groq Whisper · Claude · Telegram Bot API

- Built in one day: record a 60-second take, approve 3 Telegram messages — the agent cuts silences, removes retakes, plans B-roll, burns captions, and posts to Instagram.
- Engineered a multi-model pipeline (Claude for topic selection & timeline planning, Groq Whisper for transcription, Llama-4 for scripting) with full word-level timestamp alignment.
- Reduced per-video editing effort from 2–4 hours to under 90 seconds of human interaction; marginal cost <\$0.05 per video.

### Automated Carousel Agent — Autonomous Content Pipeline

bajpai.tech/projects/carousel-agent · Node.js · LLM APIs · Instagram Graph API · Telegram

- Engineered a fully autonomous agent that scrapes tech news, generates on-brand carousel designs, and auto-posts to Instagram daily — zero manual intervention.
- Powers @bajpai.tech with consistent daily output; Telegram approval flow provides lightweight human-in-the-loop control.

### UrbanSetu — AI-Powered Civic Issue Reporting

urbansetu.co.in · GitHub · React.js · TensorFlow.js · TailwindCSS · Leaflet · Geolocation APIs

- Built a civic reporting platform where residents flag city issues; AI image detection classifies problems and routes them automatically to the relevant authority.
- Delivered a responsive mobile-first UI with GPS tracking and live-status updates.
- Project post reached **85,000+ impressions** and 1,500+ likes on LinkedIn.

## PROFESSIONAL EXPERIENCE

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### Training and Placement Cell — University of Lucknow

*Co-Lead, Skill Development & Industry Interface Team*

Oct 2025 - Present

- Coordinating industry-connect workshops linking students with professional mentors.
- Designing digital materials and event branding for placement-readiness initiatives.

*Student Coordinator, Networking & Outreach Team*

Feb 2021 - Dec 2022

- Managed outreach events and student-industry interactions; contributed to campus visibility campaigns.

## EDUCATION

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### B.Tech — Computer Science & Engineering

Aug 2024 - 2028

University of Lucknow · SGPA: 7.19 → 8.08 → 8.38 (Sem 1–3)

*Student Coordinator — Training & Placement Cell · Member — IT Team, Rangmanch Cultural Council, AWS Cloud Club*

### Intermediate (Class XII)

2023

Acme Public School, Kanpur | 88%

### High School (Class X)

2021

Acme Public School, Kanpur | 83%

## CERTIFICATIONS

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### Artificial Intelligence Course

Samsung Innovation Campus · May 2026 · Credential: SIC13489

### Fundamentals of Deep Learning

NVIDIA · Sep 2025 · Credential: 1t00Ys3ITkGJkXM3sgBKrQ

### Federated Learning for User Privacy and Data Confidentiality

EICT Academy, IIT Roorkee · Sep 2025 · Credential: EICTIITR-FDP-5H6-06-13

## ADDITIONAL

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Soft Skills Creative Thinking | Communication | Networking | Team Collaboration | Time Management

Interests Software Development | UI/UX Design | Open Source | Hackathons | Visual Storytelling

Languages English, Hindi