

# Abhishek Bajpai

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## PROJECTS

### Skill Issue - Agentic Skills Marketplace

[skillissue.bajpai.tech](https://skillissue.bajpai.tech) | [GitHub](#)

- Selected as a project in **GSSoC 2026**; managing 17+ open-source contributors as project admin.
- Built a platform where developers discover, build, and share Markdown skill files that make AI agents reliable at domain-specific tasks - **150,000+ skills indexed** and growing; an automated weekly scraper pulls new skills directly from GitHub.
- Architected the full stack: database schema, search and tagging system, discovery UI, and SEO - deployed on Vercel.

### End2End - Autonomous Video Editing Pipeline

[Blog](#) | [GitHub](#)

- 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

[Blog](#) | [GitHub](#)

- 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](https://urbansetu.co.in) | [GitHub](#)

- 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.

## 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 | PostgreSQL | 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

## EXPERIENCE

### Training and Placement Cell, FoET - University of Lucknow

*Co-Lead, Skill Development Team*

*Apr 2026 – Present*

- Connecting industry professionals with the college; coordinating outreach for student-industry interaction.

## EDUCATION

### University of Lucknow

**Aug 2024 – 2028**

*B.Tech - Computer Science & Engineering*

*SGPA: 7.19 → 8.08 → 8.38 (Sem 1-3)*

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

## CERTIFICATIONS

**Artificial Intelligence Course** : Samsung Innovation Campus *May 2026*

**Fundamentals of Deep Learning** : NVIDIA *Sep 2025*

**Federated Learning for User Privacy** : EICT Academy, IIT Roorkee *Sep 2025*