Atul Singh

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LinkedIn | GitHub

Education

Shri Shankaracharya Technical Campus, Bhilai *2022 – Present*
B.Tech in Computer Science & Engineering, CPI: 8.3/10

Gurukul English Medium School (CBSE) *2020 – 2022*
Senior Secondary (Class 12) — 58%

Gurukul English Medium School (CBSE) *2019 – 2020*
Secondary (Class 10) — 71%

Experience

Techonet Pvt. Ltd. *Training-cum-Internship*

Worked on developing RESTful APIs and collaborated with a team to build a hotel booking platform. Implemented authentication and authorization using bcrypt and JWT. Technologies used include Node.js, Express.js, and MongoDB.

Technical Skills

Languages: Python, JavaScript, C++, Java, SQL
Frontend: HTML5, CSS3, Tailwind, Bootstrap, React, EJS
Backend/Frameworks: Node.js, Express.js, Firebase
Database: MongoDB, SQL, Firebase Realtime DB
Tools: VS Code, Postman, Git, GitHub, Linux CLI
AI/Integrations: LangChain, Ollama, FFmpeg, OpenAI API

Projects

AutoTube AI — Video Content Generator *GitHub*

- Full AI pipeline for YouTube Shorts: topic $\rightarrow$ video with scripting, TTS, images.
- LangChain-Ollama (Llama3 8B) for offline script generation.
- Modular Python microservices with `subprocess` & `sys` for fault tolerance.
- Integrated MoviePy, gTTS, UNSPLASH api for images.

EduStream — Course Platform *GitHub*

- Full-stack platform to browse/enroll/watch courses , which are stored in youtube as protected video.
- Admin dashboard for playlist upload (`ytpl`) and course management.
- Authentication using `bcrypt` + JWT.
- EJS + Bootstrap UI; Node.js/Express backend with MongoDB.

Offline AI Static Website Builder *GitHub*

- Offline AI static website generator: templates, component-based, API-driven modes.
- Component-based: AI selects sections/variants and fills placeholders in HTML.
- Prompt-routing engine with LangChain-Ollama (Gemma3/Llama3 8B) for content/code.
- Structured, responsive websites with modular, offline architecture.

Achievements

- Led a team of 5 in hackathon; ranked top 10 for creativity.
- Consistent academic performance during B.Tech.
- Exploring AI integrations in full-stack web development.