HARSH KUMAR

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LinkedIn — GitHub — Portfolio

EDUCATION

G.B. Pant University Of Agriculture And Technology — Pantnagar
B.Tech in Electronics and Communication (CGPA: 7.10/10) — 2023 – 2027

Sai Public School — Udham Singh Nagar
Senior Secondary (XII), CBSE Science (77.80%) — 2022

TECHNICAL SKILLS

- **Languages: Python**, JavaScript (ES6+), TypeScript, **SQL**, HTML5, CSS3
- **Backend & Database:** Node.js, Express.js, **PostgreSQL**, MongoDB, Mongoose, REST APIs
- **AI & LLM: Google Gemini API**, Prompt Engineering, AI Agents, JSON Schema Output
- **Frontend:** React.js, Next.js 14/16, Tailwind CSS, Redux Toolkit, Zod, Shadcn UI
- **Tools & DevOps:** AWS (EC2), Nginx, Git, GitHub, Linux, Vercel, Passport.js

PROJECTS

Scriptify - AI SaaS Application ↗ — *Next.js, Express, MongoDB, Gemini API, GCP EC2*
Full-Stack AI Video Script Generator
- Designed an **AI-powered SaaS** that automates video script writing using **Google Gemini Pro** and advanced prompt engineering.
- Engineered a robust REST API with **Express.js** and **MongoDB**; deployed the backend on an **GCP EC2** instance with **Nginx**.
- Created a responsive **Next.js** frontend with Markdown support, allowing users to generate and manage scripts efficiently.

Shivam Express News Portal ↗ — *Next.js 16, Tailwind CSS, REST API*
Freelance Client Project (Full Stack)
- Developed a production-grade news platform featuring secure **OTP-based authentication** (Passport.js) and a dynamic admin dashboard.
- Built a custom CMS for article management and integrated an advertisement system with SEO-friendly ID-based routing.

Uttarakhand Wanderlust - AI Travel Planner ↗ — *ReactJS, Supabase, Python, Gemini API*
Winner: 3rd Position in UDBHAV State Level Hackathon (Nov 2025)
- Engineered a **Generative AI** chatbot that constructs personalized travel itineraries by processing user preferences through **LLM pipelines**.
- Integrated **Google Gemini API** to automate route planning and real-time location suggestions.

SCPPS Official Portal ↗ — *React, Node.js*
Official Website for GBPUAT's Cultural Council
- Designed and currently manage the official university portal, streamlining event registrations and team directories.
- Responsible for maintenance and server uptime, ensuring seamless communication for the student body.

EXPERIENCE

Hive To Harvest ↗ — Pantnagar
Chief Technical Lead — Aug 2025 – Present
- Spearheading the end-to-end development of an agri-tech platform, bridging the gap between traditional farming and digital commerce.
- Architected a scalable **Full Stack** solution (React, Express, MongoDB) for D2C sales, managing the deployment lifecycle on Vercel.
- Leading cross-functional collaboration to integrate backend services with responsive frontend interfaces.

LEADERSHIP & ACHIEVEMENTS

- **National Finalist, Smart India Hackathon:** Led a 6-member team to the Top 6 in National Finals; coordinated development strategy under strict deadlines.
- **Hackathon Winner:** Secured 3rd rank in UDBHAV Hackathon for innovative implementation of **AI technologies**.

- **Web Administrator, Cultural Society:** Managing the official portal for the university's largest student body.