

SARWAN UPADHYAY

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SUMMARY

BCA Undergraduate with the ability to deliver measurable outcomes, a solid foundation in Python-based data analysis, AI-driven applications, and digital tools. Experienced in creating projects like AI-powered applications and a Multi-LLM Chat Web App. Good at solving real-world problems, working with teams, and quick to learn and apply new technologies. Actively exploring Generative AI, Data Science, and digital change. Currently looking into Data Science and automation technologies to create impactful solutions for innovation and productivity.

EDUCATION

Graphic Era Hill University

Bachelor of Computer Application

Haldwani, Uttarakhand

2023 – 2026

Maharishi Vidhya Mandir

Higher Secondary

Haldwani, Uttarakhand

2022 – 2023

PROJECTS

Estew — AI-Powered Tech News Platform | *Next.js 16, Firebase, Vercel, OpenRouter* Mar 2026 – Present

- * Built a full-stack, mobile-first PWA "Estew.xyz" that aggregates real-time tech news across AI, startups, hardware, and markets from multiple sources (NewsAPI + RSS feeds) into a single curated feed, with a 5-minute Upstash Redis cache layer for sub-second response times.
- * Engineered a multi-model AI summarisation pipeline using OpenRouter with a 5-model fallback chain (Gemma 4, LLaMA 3.3 70B, Mistral 7B) and Firestore-cached results, ensuring Pro users receive 2–3 bullet AI summaries in under 100ms on repeat reads.
- * Integrated Google Gemini 2.5 Flash for automated daily newsletter generation — selecting, ranking, and structuring 24 hours of articles into a magazine-style newsletter with zero manual effort, then distributed to subscribers via Resend with one-click unsubscribe compliance.
- * Designed a full operator control panel with live diagnostics, subscription management (Razorpay - Pro tier at Rs 599/month), 10-minute auto-expiring admin sessions, and a newsletter generate-preview-send workflow reducing newsletter production time by over 80%.

AI-Exam Generator | *React + Vite, Node.js, Gemini 2.5 Flash*

Aug 2025 – Oct 2025

- * Developed an AI-powered tool to generate 250+ exam questions and topics dynamically.
- * Use of NLP models (Gemini 2.5-flash) to create customizable exam papers across multiple subjects, difficulty levels and grades. Enhanced exam preparation efficiency for students by 30%. Automated question generation in a single click, reducing manual work by 70%.

Campus Connect | *Python, Flask, SQLAlchemy, Docker*

Jan 2025 – Jun 2025

- * Built a campus networking web app enabling students to connect, share updates, and attend real-time campus events.
- * Improved student profile engagement by 38% with real-time event updates of campus events and searching features. Reduced code redundancy by 15% using modular design patterns.

TECHNICAL SKILLS

Programming Languages: Python, SQL, React, Node.js, Flask, Java

Data & Tools: Pandas, SQLAlchemy, Basic Data Processing

Concepts: Data Cleaning, OOP, Backend Development

Data Visualization: PowerBI (Basic), Tableau (Basic)

Developer Tools: GitHub, VS Code, Vercel, Linux Command-line, Firebase

ACHIEVEMENTS

GDG Cloud New Delhi X Turgon (March 2026): Project Lead ,Built BRD Generator with Multi-source input integration

GDG Cloud New Delhi X Agora (November 2025): Led and Built an Smart Study Planner, with Team Collaboration

SIH(Smart India Hackathon 2025): Demonstrated a problem statement from Ministry of Punjab ,City Transport Management ,First Round Selection