

PROFESSIONAL SUMMARY

Computer Science (Hons.) undergraduate specializing in AI & Data Analytics with hands-on experience in Python, JavaScript, and full-stack development. Builder of real-world projects integrating LLMs and data visualization in cybersecurity and climate tech. Strong analytical and writing skills developed through a Content Writing internship and active open source contributions. Passionate about AI systems, model behavior, and the intersection of technology and human reasoning.

Skills

- AI & Data:** LLM Integration (Groq, Gemini), Prompt Engineering, ML Forecasting (NumPy regression), Data Visualization (D3.js, Chart.js, Plotly, PyDeck), ERA5/NetCDF Data Processing, Data Formatting & Analysis
- Programming:** Python, JavaScript
- Frontend:** React, HTML, CSS, Streamlit
- Backend:** Node.js, Express.js, Django
- Database:** MySQL
- Technical Tools:** Git, GitHub, VS Code, Figma, Xarray, Vite
- Security:** Chrome Extension (MV3), JWT Auth, Google Safe Browsing API, Cybersecurity
- Writing & Communication:** Technical Writing, Content Creation, Grammarly, Google Docs, Notion
- Other:** UI/UX Design

Projects

PyClimaExplorer — Climate Data Intelligence Dashboard

Tech Stack: Python, Streamlit, Plotly, PyDeck, NumPy, Xarray, Gemini 1.5 Flash, ERA5/NetCDF

- Contributed UI/UX, Plotly visualizations, and technical documentation for a 4-person team project built at IIT(BHU) Hackathon 2026.
- App processes 30+ years of ERA5 climate data (NetCDF format) across 5 modes: interactive heatmap, year-comparison, 3D PyDeck globe, AI story mode, and ML forecast.
- Forecast module runs pixel-wise polynomial regression across 10,000+ spatial grid points simultaneously using NumPy, projecting temperature/precipitation to 2100 with 95% confidence intervals.
- Gemini 1.5 Flash narrates real climate events and generates city-level risk summaries; deployed live on Streamlit Cloud.

ClickSafe — Browser Privacy Extension Tech Stack: Chrome MV3, Node.js, Express.js, MySQL, JWT, Google Safe Browsing API v4, Chart.js

- Full-stack Chrome extension with a custom Privacy Score formula (0–100) calculated live from HTTPS status, tracker scripts, tracking cookies, and mixed content signals.
- Implements privacy-first Safe Browsing: URLs are SHA-256 hashed and checked locally against 70,000+ prefix entries — a network request only fires on a prefix match, so clean sites never leave the browser.
- Detects 5 dark pattern types (fake urgency, confirm shaming, fake countdowns, pre-ticked checkboxes, cookie manipulation) via content script injection with dismissible overlays.
- Full auth system (JWT), MySQL result cache with 24hr auto-cleanup, rate limiting, and input validation middleware.

CarbonWise — Lifecycle Vehicle Emissions Intelligence Platform Tech Stack: React, Vite, Django, D3.js, Chart.js, Groq LLaMA, EPA & EEA datasets

- Built a full LCA (Life Cycle Assessment) engine computing manufacturing CO₂ + operational emissions + battery disposal per vehicle, grid-adjusted for 67 Indian state and global regions using EPA, EEA 2023, and CEA datasets.
- Greenwash detector scores marketing claims using a weighted keyword flag system, cross-referenced against a curated brand-specific claims database.
- AI carbon advisor powered by Groq LLaMA with a domain-specific system prompt, conversation history, and live LCA context injection per query.

EDUCATION

GLA University |Uttar Pradesh, India

B.Tech (Hons.) in CSE, Specialization: AI & Data Analytics | Aug 2025 – Present

K.R.S.D Public School | Mathura, Uttar Pradesh

Class 12, (Science Stream) | Year of Passing: 2024

- Achieved **87.2%** in Board Examination
- Qualified JEE Mains 2024 & 2025, appeared for JEE Advanced.

Amar Nath Vidya Ashram, Sr Sec School | Mathura, Uttar Pradesh

Class 10 | Year of Passing: 2022

- Achieved **96%** in Board Examination; 2nd place in district-level essay competition.

EXPERIENCE

Web Content Writer — Dominade Network July 2025 – September 2025 | Remote, India

- Researched and wrote articles on entertainment topics for a digital audience, maintaining consistent publishing quality across deadlines.
- Edited and proofread content for clarity, grammar, and reader engagement in collaboration with remote editors.