





# Gaurab Chhetri

Austin, TX |  gauravfs-14 |  gaurabchhetri |  gaurabchhetri.com.np |  contact@gaurabchhetri.com.np | +1 (xxx) xxx-xxxx

## SKILLS

**Languages:** TypeScript, JavaScript, Python, C/C++, SQL, R, HTML, CSS, PHP  
**Web/Backend:** Next.js, React, Node.js, Express, REST; **DB:** MySQL, MongoDB, SQLite; **Tools:** Docker, Linux, Git, Neovim  
**Data/ML/Viz:** pandas, numpy, scikit-learn, Hugging Face (Transformers), R (ggplot2, Shiny), D3.js, Leaflet.js  
**Additional:** SEO, CLI tooling, WordPress, Domain management, Prompt engineering, CI/CD, GitHub Actions

## PROJECTS

- CognitiveSky** ([github.com/gauravfs-14/cognitivesky](https://github.com/gauravfs-14/cognitivesky)) Research Project  
*Node.js, Python, Hugging Face (Transformers), React* May 2025 – Aug 2025
  - Engineered an end-to-end Bluesky Firehose pipeline with batched NLP labeling for sentiment, emotion, and topics, and delivered a Next.js research dashboard with Turso-backed snapshots; accepted for presentation at **HICSS 2026**.
- CrashTransformer** ([github.com/gauravfs-14/crashtransformer](https://github.com/gauravfs-14/crashtransformer)) Research Project  
*Python, Hugging Face (Transformers), Next.js* Jul 2025 – Aug 2025
  - Developed a transformer-based workflow for narrative summarization and severity inference across **150k+ police reports** with reproducible evaluation and open documentation.
- Bhanai Programming Language** ([npmjs.com/package/bhanai](https://npmjs.com/package/bhanai)) Personal Project  
*Node.js, CLI Tools* Jan 2021 – Feb 2021
  - Published a Nepali-style interpreted language that executes .bhn files via chalu, supporting variables, conditionals (yadi...aru), comments, lists, and objects under the MIT license, reaching early adoption among hobbyist developers.
- ComputeNepal** ([computenepal.com](https://computenepal.com)) Open Source  
*WordPress, SEO, Open Source* May 2021 – Present
  - Founded an education platform with **200+ articles** and expanded reach to **50k+ monthly impressions** through technical SEO and open source learning tools, including Learn C, JS Challenges, Learn HTML, and Quiz.
- Research Dashboards and Tools** ([github.com/gauravfs-14](https://github.com/gauravfs-14)) Research Project  
*Next.js, Leaflet.js, TypeScript* Oct 2024 – Present
  - Delivered **25+** interactive dashboards with filtering, clustering, overlays, and responsive UI in Next.js and Leaflet, ingesting CSV, SQLite, and API sources to support research and policy analysis.

## EXPERIENCE

- Undergraduate Research Assistant** San Marcos, TX  
*AIT Lab @ Texas State University* Oct 2024 – Present
  - Produced **25+ analytical and visualization tools** across internal and open source contexts, processed **150k+** mobility and crash records, and standardized AI in transportation workflows with reproducible pipelines.
  - Co-authored **5+ manuscripts** published or online with **10+** additional submissions in progress, contributing methods, analysis, modeling, quality control, and documentation in Python, R, and JavaScript.
  - Designed the AIT Lab website in Next.js and Tailwind, deployed on Vercel, and achieved **90+ Lighthouse** SEO and performance scores across publications, projects, team, and resources sections.

## HONORS & AWARDS

- Hackathon Wins** Austin & San Marcos, TX  
*HackaCat Nano 2024, RiverHacks 2025, Organized AI Hackathon 2025* Aug 2024 – Present
  - Secured **3 of 4 hackathons wins** since 2024, building projects such as **RUMI** (AI roommate finder), **ResQMe** (AI emergency response system), and **MedGuide AI** (medical assistant with LangGraph and RAG).
- Undergraduate Research Fellowship** Texas State University  
*Competitive Research Fellowship* Mar 2025
  - Awarded \$2,000 in Quanta Services funding to lead an independent research project on heat stress prediction.

## EDUCATION

- Bachelor of Science in Computer Science** San Marcos, TX  
*Texas State University (GPA: 4.0) — Dean's List (Fall 2024 – Present)* Expected May 2028
  - Coursework:** Data Structures, Algorithms, Assembly Language, Discrete Math, Probability & Statistics, Calculus