

Gaurab Chhetri

Austin, TX | +1 (XXX) XXX-XXXX | contact@gaurabchhetri.com.np
GitHub: gauravfs-14 | LinkedIn: gaurabchhetri | Web: gaurabchhetri.com.np

SUMMARY

Undergraduate researcher and full-stack engineer building AI systems and OSS tools; first-author and co-author on multiple papers with several preprints, including CognitiveSky accepted for HICSS-59, and an active GitHub with many projects.

EDUCATION

| | |
|--|--|
| Bachelor of Science in Computer Science <i>Texas State University, GPA: 4.0 — President's List (Fall 2024 – Spring 2025)</i> | San Marcos, TX <i>Expected May 2028</i> |
|--|--|

SKILLS

- Languages:** TypeScript, JavaScript, Python, C/C++, SQL, R
AI/ML: PyTorch, Transformers (Hugging Face), scikit-learn, TF-IDF, NMF
Frameworks: React, Next.js, Node.js, Express, LangChain, Streamlit, Tailwind CSS
Tools/Databases: PostgreSQL, MongoDB, Supabase, Docker, Git, Linux, CI/CD, GitHub Actions

EXPERIENCE

| | |
|---|---|
| Undergraduate Research Assistant <i>AIT Lab, Texas State University</i> | San Marcos, TX <i>Oct 2024 – Present</i> |
| <ul style="list-style-type: none">Engineered and deployed 25+ data-driven web tools for AI and transportation research, processing 150k+ mobility and crash records with reproducible pipelines in Python and JavaScript.Implemented ML workflows for crash analytics and safety prediction, contributing to 5+ published papers.Developed and optimized the AIT Lab website (Next.js + Tailwind), achieving 90+ Lighthouse performance and SEO scores. | |

PROJECTS

| | |
|--|----------------------------|
| CognitiveSky — github.com/gauravfs-14/CognitiveSky | <i>Research Project</i> |
| <ul style="list-style-type: none">Accepted for presentation at HICSS-59 (2026). Built an end-to-end system for analyzing mental health narratives on Bluesky using Node.js, Python, and Transformers integrated with a Next.js dashboard.Automated 24x7 ingestion and labeling via GitHub Actions, applying sentiment, emotion, and topic modeling to generate interactive JSON-based summaries. | |
| Adaptly — github.com/gauravfs-14/adaptly | <i>Open Source Library</i> |
| <ul style="list-style-type: none">Created a TypeScript-based AI-adaptive UI library that turns natural-language commands into live React layouts using an LLM-driven planner integrated with Next.js and Tailwind.Implemented a Cmd+K command palette and adaptive layout engine supporting OpenAI, Anthropic, and Gemini models for real-time interface recomposition; published as an open-source package. | |
| MedGuide AI — github.com/gauravfs-14/medguide-ai | <i>Hackathon Project</i> |
| <ul style="list-style-type: none">Built a privacy-first medical assistant that interprets health documents via LangGraph agents, local embeddings (Ollama), and a retrieval-augmented Streamlit interface; winner of the Organized AI Hackathon, Austin, TX.Used the Model Context Protocol (MCP) for memory, PDF parsing (PyMuPDF), and semantic search with ChromaDB, deployed in Docker for secure offline use. | |
| VidXiv — github.com/gauravfs-14/vidxiv | <i>Personal Project</i> |
| <ul style="list-style-type: none">Developed a Streamlit app that converts arXiv papers into narrated videos using Gemini for summarization, TTS for narration, and MoviePy for visual rendering.Added multi-scene generation, portrait/landscape support, and background music to create polished, YouTube-ready educational content; used for paper stories at AIT Lab, Texas State University. | |

HONORS AND AWARDS

| | |
|---|---|
| Hackathon Wins <i>Won 3+ hackathons since 2024, building projects like RUMI, ResQMe, MedGuide AI.</i> | Austin/ San Marcos, TX <i>2024 – Present</i> |
| Undergraduate Research Fellowship <i>\$2k Quanta Services grant for AI-based heat-stress prediction research.</i> | |