My (Chiffon) Nguyen

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RESEARCH INTERESTS

I research and develop interdisciplinary approaches to **make human knowledge work and learning more inclusive, collaborative, and trustworthy** through **human-AI systems**. My interests include 1) human-AI teaming and co-creation, 2) low-resource, multilingual, and multicultural adaptation, and 3) human-AI bi-alignment, AI alignment, AI safety, knowledge editing and unlearning.

EDUCATION

Minerva University, College of Computational Sciences   San Francisco, CA
B.S in Computational Sciences (Machine Learning and Statistics), GPA: 3.7/4.0   *Sep 2021 — May 2025*

Relevant Coursework: Machine Learning, AI Ethics, Optimization Methods, Software Engineering, Statistical Modeling and Causal Inference, Bayesian Modeling

WORK EXPERIENCE

Machine Learning Research Assistant   May 2024 — Present
AI & Mixed Reality Lab, Landshut University of Applied Sciences   *Landshut, Bavaria, Germany*

- Developed a reproducible pipeline for 3D object detection with LiDAR point cloud data and [PointPillars](#) algorithm in PyTorch, Bash, and Docker
- Conducted a benchmarking report on standard and synthetic datasets

Student Qualitative Researcher   Feb 2023 — Apr 2023
Human Resources Department, T-Hub (Telangana's innovation hub)   *Hyderabad, Telegana, India*

- Designed a scalable, data-driven mental well-being framework for high-pressure startup environments, targeting 650+ startups in India's largest incubation center
- Conducted ethically compliant surveys and 50 interviews, in a team of four, for employee mental health
- Analyzed qualitative and quantitative data from startup databases, driving policy recommendations

TEACHING EXPERIENCE

Lead Teaching Assistant & Data Analyst, PR51 Programming with Python   May 2024 — Present
Academics Team, Minerva University   *Remote or San Francisco*

- Taught two weekly programming labs for 40+ first-year students covering computer systems, Python fundamentals, object-oriented programming, debugging, security, and data structures
- Produced a report of data-driven recommendations based on student and tutor surveys, Google Sheet trackers, and Google Colaboratory notebook comments (using Google Drive API)

Lead Teaching Assistant, FA50/FA51 Formal Analyses   Fall 2024 — Spring 2024
AI & Mixed Reality Lab, Landshut University of Applied Sciences   *San Francisco*

- Guided 50+ freshmen per semester in mastering formal logic, probability, and algorithmic thinking during office hours
- Provided personalized feedback on 25 quizzes and assisted grading three assignments

SELECTED PROJECTS

Astro Academic Theme (astro-academic.mychiffonn.com)   Jul 2025 — Present

- Architected scalable and fast academic portfolio using Astro 5 static site generator with singleton patterns to reduce rendering time by 50% and WeakRef caching to cut memory usage by 30% for 50 blog posts
- Developed blog infrastructure with support for Github-flavored markdown, table of content auto-generation, multiple author, hierarchical post-subpost relationships, math, code highlighting, zoomable images, and more
- Achieved 80+ SEO score, 100 Lighthouse scores, with internationalization and timezone support

SeizureSavvy (seizure management & prediction) (github.com/mychiffonn/SeisureSavvy)   Feb 2024 — Apr 2024

- Managed a team of 4 as Scrum Master to build a Progressive Web App for intuitive seizure management with machine learning-based predictive alerts in Flask (Python), React, and Chakra UI

- Managed backend infrastructure and database design in Flask, enhancing data logging and medication tracking, resulting in a 35% increase in user data accuracy
- Conducted code reviews in Python and React JavaScript, cutting 40% critical bugs and enhancing application stability

Volunteering & Community Services

- Organizer @ SEACrowd, research community dedicated to advance Southeast Asian-focused AI   May 2025 - Present
- Volunteer @ CommonCrawl, helping with web language crawl and identification   Jul 2025 - Present
- Dataset contributor for Humanity's Last Exam benchmark dataset   Feb 2025

Skills

- **Programming Languages**: Python, TypeScript, Bash, R, SQL
- **Machine Learning & Statistics**: HuggingFace's trl, PyTorch, sklearn, llamaindex, PyMC, scipy
- **Web Frameworks & Tools**: Astro, React, Tailwind CSS, Flask (Python)

Last Updated: Aug 15, 2025