



NITIN GUPTA

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Portfolio

EDUCATION

University of South Carolina

M.S.: Computer Science; **Concentration:** Artificial Intelligence

B.S.: Computer Science; **Minors:** Mathematics, Data Science

Relevant coursework: Neuromorphic & Edge Computing, Machine Learning Systems, Artificial Intelligence, Big Data Analytics, Software Engineering, Computer Architecture, Database Design

GPA: 4.0/4.0

Aug 2025 – May 2026

Aug 2024 – May 2026

SKILLS

Advanced in Python, PyTorch, Sklearn, CUDA, Java, C++, Linux, git, \LaTeX

Intermediate in JavaScript, React, SQL, NoSQL, R, SCRUM, Apache Hadoop

Native in English, Hindi, Punjabi

Proficient in Spanish

EXPERIENCE

AI Researcher

AI Institute of USC, University of South Carolina

- Actively conducting research at the intersection of Neuro-symbolic AI and Natural Language Processing
- Developed innovative chatbot systems to promote voter participation among vulnerable groups
- Developed automated literature categorization tools, contributing to advancements in AI applications

Columbia, SC
Aug 2024 – Present

Volunteering Ambassador

Trew Friends

- Promoted organ, eye, and tissue donation, informing and educating people about the importance of donation.
- Successfully persuaded over 300 individuals to register as donors on the national organ donor registry.

Columbia, SC
Aug 2021 – Present

Explainable AI Research Intern

AI Institute of USC

- Developed a framework using Natural Language Processing and enriched knowledge graphs to generate transparent, context-aware explanations for AI-generated plans
- Conducted traffic data analysis for the SCDEC by identifying collision patterns and evaluating safety programs

Columbia, SC
May 2024 – Aug 2024

Machine Learning Researcher

Digital Research Services, University of South Carolina

- Conducted data mining on South Carolina Laws using Python and Natural Language Processing
- Trained machine-learning algorithms to study the prepared session laws and identify Jim Crow Language

Columbia, SC
Aug 2022 – Apr 2024

Material Analysis Researcher

Jefferson Lab, University of South Carolina

- Enhanced high energy physics research by developing C++ analysis code to process simulated data for various magnet materials, leading to potential cost savings of over \$1,000,000

Columbia, SC
Jun 2022 – Oct 2022

PUBLICATIONS

Towards Enhancing Road Safety in South Carolina Using Insights from Traffic and Driver-Education Data

N. Gupta, B. Muppasani, et al.

AAAI 2025

Revisiting LLMs in Planning from Literature Review: a Semi-Automated Analysis Approach and Evolving Categories Representing Shifting Perspectives

V. Pallagani, N. Gupta, B. Muppasani, B. Srivastava

ICAPS 2025 (Accepted, Pending Archival)

Building a Plan Ontology to Represent and Exploit Planning Knowledge and Its Applications

B. Muppasani, N. Gupta, V. Pallagani, B. Srivastava, et al.

Discover Data Journal (Pending Review)

AWARDS & ACHIEVEMENTS

AAAI Student Scholar encouraging student participation in the AI research community

Feb 2025

McNAIR Junior Fellowship for undergraduate computer science research.

May 2024

Phi Beta Kappa Freshman Award for outstanding academic performance at USC.

Apr 2023

PERSONAL PROJECTS

ArtEdge: Real-Time Neural Style Transfer for Mobile Devices

- An iOS application performing Neural Style Transfer (NST) directly on-device using edge computing

ArtEdge

Beacon Of Hope: A Personalized Meal Plan Recommender

- A personalized, machine learning based, meal plan recommender system providing *tailored nutrition recommendations & visualizations*

BOH

RoostAI: A University Centered Chatbot

- A deployed conversational RAG-based LLM system, allowing USC student to *easily explore campus services*

RoostAI