Nitin Gupta
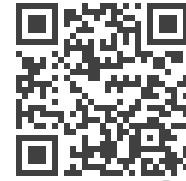
in niting9 | ⌘ g-nitin | 📱 +1 803 470 9214 | @ niting1209@gmail.com | 📍 Columbia, SC, USA | 🌐 Portfolio

Education

University of South Carolina	GPA: 4.0/4.0
M.S.: *Computer Science; **Concentration**: Artificial Intelligence*	*Aug 2025 – May 2026*
B.S.: *Computer Science; **Minors**: Mathematics, Data Science*	*Aug 2021 – May 2025*

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

Skills

Advanced in Python, PyTorch, CUDA, Java, C++, Sklearn, Linux, git, LaTeX	**Native** in English, Hindi, Punjabi
Intermediate in JavaScript, React, SQL, NoSQL, R, SCRUM, Apache Hadoop	**Proficient** in Spanish

Experience

AI Researcher — Columbia, SC
AI Institute of SC, University of South Carolina — *Aug 2024 – Present*
- Led research in Neuro-symbolic AI and NLP, focusing on planning, knowledge graphs, and multimodal AI systems
- Helped organize Safe AI for Seniors, a full-day hybrid, AAAI sponsored event (80+ attendees) with 8+ expert speakers
- Mentored students in research methodologies, resulting in successful projects and improved experimental design
- Published 4+ peer-reviewed papers at premier AI conferences on generative AI evaluation, AI planning, and explainable AI
- Peer-reviewed 10+ research papers for top-tier AI conferences, ensuring quality and relevance in the field

Volunteering Ambassador — Columbia, SC
Trew Friends — *Aug 2021 – Dec 2024*
- Promoted organ, eye, & tissue donation through community outreach, educating individuals about life-saving donation opportunities
- Successfully persuaded over 300 individuals to register as donors on the national organ donor registry

Explainable AI Research Intern — Columbia, SC
AI Institute of USC — *May 2024 – Aug 2024*
- Engineered an NLP-enriched knowledge graph framework to generate interpretable & transparent explanations for AI plans
- Conducted comprehensive traffic collision data analysis for SC Dept. of Public Health, informing policy recommendations and evaluating driver education effectiveness across 46 counties

Machine Learning Researcher — Columbia, SC
Digital Research Services, University of South Carolina — *Aug 2022 – Apr 2024*
- Performed large-scale data mining on 150+ years of SC legislative records using NLP, preprocessing 10,000+ historical documents
- Trained ML classifiers to identify discriminatory Jim Crow language patterns, achieving 85%+ accuracy in automated historical detection

Selected Publications

GAICo: A Deployed and Extensible Framework for Evaluating Diverse and Multimodal Generative AI Outputs
N. Gupta, P. Koppisetti K. Lakkaraju, B. Srivastava — *IAAI/AAAI 2026 (In-Press)*

Towards Enhancing Road Safety in South Carolina Using Insights from Traffic and Driver-Education Data
N. Gupta, B. Muppasani, S. Srivastava, A. Goel, et al. — *AAAI 2025*

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 2025*

Selected Projects

ArtEdge: Real-Time Neural Style Transfer for Mobile Devices — ⌘ ArtEdge
- Developed an iOS application performing real-time Neural Style Transfer (NST) directly on-device using CoreML and edge computing

RoostAI: University-Centered Conversational Assistant — ⌘ RoostAI
- Deployed a production RAG-based LLM chatbot enabling USC students to query 500+ campus services through natural language

Beacon Of Hope: Personalized Meal Plan Recommender — 🌐 Beacon Of Hope
- Built a full-stack ML-powered meal recommendation system providing tailored nutrition recommendations & visualizations

Selected Awards & Achievements

AAAI Student Scholar encouraging student participation in the AI research community	*Feb 2025*
McNAIR Junior Fellowship for undergraduate computer science research excellence	*May 2024*
Phi Beta Kappa Freshman Award for outstanding academic performance at USC.	*Apr 2023*