Krishna Mistry

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Education

University of Illinois Urbana-Champaign Aug. 2025 - May 2028
Bachelor of Science in Computer Science (AI Concentration) *GPA: 4.0/4.0*

Honors:
- Grainger College of Engineering Dean's List (Fall 2025)

Related Coursework:
- Data Structures, Computer Architecture, Discrete Structures, Intro to Computer Science II, Calculus III

Skills

Programming Languages: C++, Java, Python
Developer Tools: VS Code, Git/GitHub, Docker
Libraries: STL, PyTorch, PyPDF2, pyttsx3, MediaPipe, OpenCV

Experience and Leadership

Convention Security Guard Jul. 2025
JAINA Convention 2025 *Schaumburg, IL*

- Safeguarded a high-traffic VIP section with zero reported security incidents over a 3-day period by coordinating crowd control protocols for 1,000+ attendees in English and Gujarati.

Projects

MemeFocus | *Python, Git, MediaPipe, OpenCV* Feb 2026 - May 2026

- Co-developed a real-time productivity desktop application that gamifies user attention and helps the user regain focus by playing high-intensity user-selected memes when distracted.
- Orchestrated the project's continuous integration and testing infrastructure achieving 100% automated test pass rates prior to merging by authoring comprehensive pytest suites for camera, overlay, and session logic.
- Resolved critical multi-threading race conditions between camera tracking and UI overlay states ensuring zero application crashes and smooth media playback by implementing strict concurrency handling and worker threads for the PyQt6 media controller.

Stock Market Analyzer | *Python, Git, Streamlit* Feb. 2026 - Apr. 2026

- Engineered a financial metrics calculator supporting 17+ distinct performance indicators including Sharpe ratios and max drawdowns in an open-source quantitative market analyzer by processing equity curves and trade logs.
- Validated end-to-end backtesting pipeline reliability by achieving full metric accuracy across 5 distinct trading strategies through the implementation of comprehensive Python integration tests.

Fake News Detector | *Python, Git, PyTorch, Streamlit* Feb. 2026

- Co-developed a multimodal fake news detection system at the HackIllinois 2026 Hackathon within 36 hours capable of classifying both text articles and videos with confidence-calibrated verdicts by fine-tuning DistilBERT on 20,000+ WELFake samples and fusing BERT, CLIP, and Whisper embeddings via cross-modal attention in PyTorch.
- Reduced false-confidence misclassifications by implementing a 70% confidence threshold uncertainty-flagging system by designing a softmax-based inference pipeline that surfaces low-confidence predictions as UNCERTAIN instead of committing to a hard verdict.
- Accelerated model training by eliminating redundant inference across runs, and pre-computing and caching 768-dim DistilBERT text embeddings to .npz and per-video CLIP/audio feature files, decoupling feature extraction from MLP head training.

Extracurricular Activities

Project:Code: Project Member, Stock Market Analyzer Team (Jan. 2026 - Apr. 2026)
University of Illinois Philharmonia Orchestra: Violist (Sep. 2025 - present), accepted through audition process
Association for Computing Machinery (ACM): member (Sep. 2025 - present)