

# Adam Bawatneh

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## Summary

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PhD Computer Science student (Doctor of Philosophy, Fall 2025–Present) specializing in AI research, with a focus on Computer Vision and Natural Language Processing. 4.0 GPA. Experienced in LLM-based inference, evaluation, and research pipelines across local clusters and APIs. Seeking AI Research / Machine Learning internships.

## Education

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### University of Central Florida (UCF) — Orlando, FL

Doctor of Philosophy (PhD), Computer Science

Fall 2025 – Present

GPA: 4.00

Bachelor of Science, Computer Science

Spring 2025

## Current Research Areas

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- Reasoning and mental-state understanding in Large Language Models (LLMs)
- LLM inference via APIs and local/cluster-based execution (open- and closed-source models)
- Research collaboration, paper presentation, and team-based experimentation in CV and NLP

## Projects

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### BIAS-101 — Mitigating Bias in UCF-101 Action Recognition Dataset Jan 2025 – Apr 2025

- Investigated demographic bias (gender, age, race) in the UCF-101 video dataset.
- Built a large-scale multimodal annotation pipeline using CLIP and LLaVA.
- Filtered 85k+ videos via the YouTube API, adding 2k+ clips to rebalance a curated dataset subset.
- Improved dataset diversity to support better generalization and equity in action recognition models.

### DETECT — Deception Tracking Through Eye Cues Technology Aug 2024 – Apr 2025

- Directed a 9-month, faculty-advised behavioral research initiative leading a 6-member team.
- Built a real-time AI-based deception detection system using MediaPipe facial detection.
- Full-stack development with Astro, Go, and PostgreSQL; Dockerized and deployed to DigitalOcean.
- Engineered a gaze-tracking algorithm achieving 80%+ accuracy using affine stabilization.
- Agile development via JIRA and GitHub, overseeing sprint planning, reviews, and integration.

## Experience

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### University of Central Florida — Undergraduate Teaching Assistant May 2023 – Spring 2025

- Led labs and instruction for C, Python, and Java courses within the CS curriculum.
- Mentored first-time programmers, translating complex concepts into accessible explanations.
- Graded assignments and provided detailed feedback; supported students via office hours and email.
- Collaborated with instructors to deliver instruction across large course sections (1500+ students).

### Independent AI Consulting / Applied AI Exploration Jan 2024 – Mar 2024

- Explored integration of AI tools into workflow automation and decision-support pipelines.
- Conducted hands-on experimentation with LLM-based systems for analysis, coding, and productivity.

## Skills

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- **Programming:** Python, C/C++, Java, JavaScript
- **AI / ML:** PyTorch, LLM inference, model evaluation, Computer Vision, NLP
- **Tools:** Git, Linux, LaTeX, Google Docs/Sheets/Slides
- **LLM Platforms:** GPT, Gemini, Claude
- **Practices:** Agile and Waterfall development, collaborative research workflows