

AKHIL SAGARAN KASTURI

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EDUCATION

Purdue University, West Lafayette, IN

Dec 2025

- Bachelor of Science in Computer Science and Applied Statistics (Minor: Mathematics) specializing in Machine Learning
- CGPA: 3.74/4.0
- Recipient of Dean's List and Semester Honors (Fall '22, Spring '23, Fall '23, Spring '24, Fall '24, Spring '25)

WORK EXPERIENCE

AI Engineer & Researcher, PwC, Boston, MA

Jan 2026 – Present

- Recent position

Artificial Intelligence & Data Analytics Intern, Crowe LLP, Chicago, IL

Jun 2025 – Aug 2025

- Designed and implemented a multi-agent Data Quality Analysis system leveraging LLMs to generate quality checks from metadata, convert them to YAML, Jinja templates, and SQL, and dynamically update table/column descriptions based on results; built supporting UI, testing harness, and debugging tools.
- Led R&D on LLM memory and context management modules, benchmarking standalone memory layers and developing scaling laws; findings integrated into Crowe's internal knowledge base through two technical whitepapers.
- Developed a custom agentic RAG pipeline using Semantic Kernel with modular retrieval and generation skills, featuring iterative context engineering for improved relevance and control.

AI Engineer, Scale AI, San Francisco, CA

Oct 2025 – Feb 2026

- Enhanced LLM accuracy by generating and refining multi-language coding prompts using RLH
- Built 100+ evaluation stimuli and edge-case tests that in strengthened ChatGPT's training pipeline
- Collaborated with cross-functional teams to integrate feedback and drive continuous model improvements

Software Development Intern, CGI, Westerville, OH

May 2024 – Aug 2024

- Developed and implemented new features for an internal member forecasting and progress monitoring application for NiSource using .NET technologies (C#, React) and MySQL.
- Collaborated with .NET developers to provide patch fixes and enhance application performance.
- Researched and developed AI models, including a chatbot and a multi-variable time-series model, using Python, C#, and Azure's AI and ML Studios (AI Bot Service, AI Language, AutoML) to improve member forecasting and time planning.

Analytics & Artificial Intelligence Intern, Cummins, Columbus, IN

Oct 2025 – Nov 2025

- Built a data governance agent in Python to automatically tag and document Snowflake databases using hierarchical metadata.
- Supported application migration from legacy pipelines to SAS and cloud platforms through testing and data validation.
- Developed Streamlit and Power BI dashboards to visualize data lineage, tag coverage, and governance metrics across business units.

Undergraduate Researcher, Purdue University, West Lafayette, IN

May 2025 - Present

- Researching on the possibilities of utilizing image processing techniques to transcribe speech with Dr. Abulhair Saparov. Involves developing a multi-modal pipeline that is capable of blind segmenting audio spectrograms, labelling individual segments to phonemes using visual models, and finally transcribing the audio.
- Supported clinical AI research focused on automating triage recommendations for HIV patients using LLMs to understand their reasoning abilities and scaling laws with a long-term goal of scalable, safe decision support in under-resourced care settings.

Resident Assistant, Purdue University Residences, West Lafayette, IN

Aug 2024 – Present

- Employed an annual shared budget of \$96,000 to coordinate unique events promoting diversity, mental health, financial wellbeing, and career growth.
- Maintained personal relationships and conducted quarterly checkups to foster a safe, healthy, and engaged community of 50+ students from 20+ states and 5 countries.
- Provided on-call response to concerns a resident, co-worker or supervisor had regarding the residence hall environment.

Undergraduate Teaching Assistant, Purdue University, West Lafayette, IN

Jan 2024 – Present

- Supported 800+ students by conducting weekly labs and office hours, addressing course concepts and project queries, and providing guidance on coding standards.
- Enhanced student engagement on EdStem communication portal by promptly responding to inquiries and maintain clear communication on project deadlines.
- Assisted in course development by facilitating quiz logistics, grading, and contributing to the creation and testing of all student assignments.

PERSONAL PROJECTS

- **Codeminder (2025):** Developed an MCP server that pre-indexes codebases with AST-aware chunking and local embeddings, exposing semantic search tools for agents/IDEs. Added eval harnesses, chunking comparisons, and MCP integrations to accelerate retrieval and developer/agent workflows. Integrated and test performance with Codex CLI and Gemini CLI.
- **ShellFolio (2025):** Developed a Next.js-based Unix inspired personal portfolio, featuring interactive commands, flag-based navigation, reverse-i-search, tab completion via custom trie, and email redirection. Engineered a no-scroll UI with Resend API integration for real-time terminal-style messaging.

LANGUAGES: Python, Java, C, C++, C#, JavaScript, SQL, Shell, R

FRAMEWORKS: .NET, NodeJS, ReactJS, MySQL, MongoDB, Web Dev (HTML, CSS, jQuery), Git

TRAINING & CERTIFICATIONS: Azure AI Fundamentals, Azure AI Associate Engineer, Google:Introduction to Generative AI