Achintya K J

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Summary

Final-year CS & Data Science dual-degree student in Bengaluru with hands-on research and prototyping experience across Applied ML, LLM evaluation, and AI-native systems. Experienced in developing conversational evaluation platforms, agent observability frameworks, and multi-modal human-centered AI systems.

Education

B. N. M. Institute of Technology — BE Computer Science & Engineering 2023 – Present
CGPA: 9.60

Indian Institute of Technology Madras — BS Data Science & Applications 2023 – Present
CGPA: 7.77

Experience

AI Research Intern (Voice AI & LLM Evaluation), Old Dominion University Aug 2026 – Present

- Built a live voice conversation platform integrating WebRTC, Pipecat, and Gemini Live into Convex.
- Engineered synthetic multi-turn dialogue simulation pipelines across 225 operational scenarios with automated runtime tool-outages and error injection.

AI Pentesting Research & Development Intern, Pragya Cyber Aug 2025 – Present

- Collaborated on the end-to-end research, design, and implementation of SecuraGPT from scratch.
- Developed a custom policy engine and observability components for compliance and telemetry.
- Mapped compliance control frameworks to automated policy evaluation rules within SecuraGPT.
- Created technical product walkthrough and demonstration videos for SecuraGPT's YouTube channel (@securagpt).

Projects

NLP Document Clustering | Python, Sentence Transformers, UMAP, HDBSCAN

- Built an unsupervised document organization system comparing domain-trained Doc2Vec with pretrained Sentence Transformers (all-MiniLM-L6-v2) using UMAP and HDBSCAN.
- Evaluated cluster validity on heterogeneous multi-format files (PDF, DOCX, HTML), analyzing index inversion between internal metrics and ground-truth pairwise F1 (0.625).

PaperForge | Python, FastAPI, React, PyMuPDF, SQLite

- Built an automated research pipeline indexing 150+ arXiv papers via PyMuPDF, extracting cited bottlenecks to compile structured implementation specs for AI coding agents.

Toki | Tauri, SvelteKit, TypeScript

- Built a cross-platform screen time tracker with active window monitoring for Windows and Linux (Hyprland), idling at under 7MB RAM.
- Engineered a modern desktop UI using Tauri and SvelteKit plus a dedicated product website (toki.achintyakj.tech), gaining 80+ downloads and 12 GitHub stars.

Achievements

11th Place out of 550+ Teams in Bypass CTF, National level CTF, Held in AIT, Pune	Jan 2026
1st Place in HashNova CTF, Held in BNMIT, Bengaluru	Oct 2025
National Finalist, IBM, Kaspersky & SAP Hackathons (Top 50 in the country)	Jun-Jul 2025
3rd Place MathWorks Code Crunch Hackathon	Apr 2024

Skills

Deep Learning, Machine Learning, Linux, PyTorch, Git, GitHub, Docker, OpenCV, MATLAB, Python, TypeScript, Java, AWS, Presentation, Team Management, Project Management