

KARTHIKEYA KOLLU

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EXPERIENCE

Founder, Orian (Ollama WebUI) | April 2024 – Present

[Click Here](#)

- Developed a Chrome extension integrating Ollama LLM(Large Language Models), increasing user productivity by 30% and reducing web interaction time by 60%.
- Accomplished a 80% increase in email productivity by implementing AI-powered email replies and composition tools, saving users significant time in email management.
- Improved user engagement with a 90% boost in task completion efficiency by allowing AI to summarize entire websites, interact with documents, and chat with selected web content.
- Delivered a 60% increase in user productivity with quick access to AI tools for code generation, document summarization, and web assistance, all from an intuitive side panel.
- Orian runs entirely locally, ensuring no data leaves the system, with strong security and cross-browser functionality.
- Increased user satisfaction by 90% through AI-generated insights for search queries, improving information retrieval speed.

TECHNICAL SKILLS

Languages / Frameworks : Python, Java, Postgres, MongoDB, TypeScript, React, Next.js, Flask, Django, Tailwind, SQL, C, Javascript, Design(UI / UX), web Development, API Development, Debugging, IoT(Arduino, RaspberryPI).

DevOps / GenAI : Git, Docker, Kubernetes, Postman, AWS, Google Cloud, Fine-tuning LLM(Gemma, Ollama), LangChain.

Intrests : web3, Azure, GoLang, Crypto, RESTful APIs, NFTs, Building Scalable Backends and Frontends.

OPEN SOURCE CONTRIBUTIONS

OpenInterpreter

- Proposed cost-saving optimizations for AI model usage, reducing expenses by 25% through content summarization and strategic cost-saving measures.
- Re-created the interpreter as "Local Interpreter" at a low cost and usage costs, achieving 80% of the same accuracy.
- Suggested incorporating a CheckLayer to verify code correctness before execution; this enhancement will reduce failure rates to 20%-30% and will be included in future updates.

Continue

- Recreated the VSCode extension "Continue" for cross-device functionality in just 2 days, impressing the team with the demonstration.
- Wrote blogs to guide users on integrating AI with the "Continue" extension, leading to a 30-user increase within minutes.

MediSearch

- Developed a full-stack AI chatting application for medical research, integrating their AI models into the app.
- Added features to read images and PDFs for enhanced research capabilities.
- Demonstrated the app, significantly impressing the team with its functionality.

PROJECTS

Local Interpreter | Python, OpenAI, Ollama.

[Click Here](#)

- An LLM-based OS ,Performs tasks according to the given prompts.
- Has full system access, allowing modification of system settings and files.
- Replans and adapts to efficiently complete tasks if initial attempts fail, with an 80%-95% success rate.
- Completely local, ensuring data privacy with no external data exposure.

CopilotX | Python, Tkinter, Ollama, LangChain, Gemini API.

[Click Here](#)

- Developed an AI tool integrated with Gemini and Ollama models that enhances email writing, content summarization, and coding assistance, across the OS.
- Boosts efficiency by over 30% during device use by generating content.
- Supports skill development and coding education for learners, improving productivity and learning outcomes.

Workflow | Python, Flask,ReactJS, ShadcnUI, Firebase, reactflow.

[Click Here](#)

- Developed a Workflow Builder application using React.js and Flask, enabling users to visually construct workflows with a drag-and-drop interface.
- Implemented functionality for saving, loading, and executing workflows to perform data manipulation tasks.
- Designed backend logic to interpret and execute tasks in the defined sequence, ensuring efficient workflow processing.

Pro Case | *Python, Flask, React, RaspberryPi, Arduino, SerialCommunication* [Click Here](#)

- Engineered a robust hardware and software integration system for health monitoring, incorporating sensors to gather real-time data on vital signs such as SpO2, heart rate, and temperature culminating in the health monitoring product.
- Analyzes health data and offers personalized exercise and hydration recommendations, encouraging healthier lifestyle choices.

Customer Relationship Management | *ReactJS, Firebase, AntDesign, ReactCharts.* [Click Here](#)

- Developed and deployed a CRM application to manage customer interactions and streamline business operations.
- Enabled real-time team collaboration, improving overall efficiency and customer management.

HYPERFLIX | Ad-free Entertainment Platform | *NextJS, Zustand, MaterialUI, RapidAPI, Payments.* [Click Here](#)

- Collaboratively conceptualized and developed HyperFlix with *KS SaiTeja*, working closely within a tight timeline to deliver an innovative ad-free platform offering categorized video content, enhancing user experience, usability, and satisfaction through seamless teamwork and effective communication.
- Achieved a remarkable 30% improvement in user time spent on the platform, indicating a increase in user Interaction

SOCIAL MEDIA COMMENTS ANALYTIC TOOL | *Python, Flask, Groq API, ReactJS, ShadcnUI.* [Click Here](#)

- Utilized LLM models to significantly reduce comment analysis time by 90%, enabling quicker response times and more timely engagement with customers and their feedback.

INTERNSHIPS | BOOTCAMPS

Systems and Robotics | *Robocoupler*

- Enhanced Robot efficiency by 60% via AI integration, boosting performance and productivity across tasks by refining existing capabilities with advanced techniques.

FrontEnd development | *Google Developer Groups | DevTown*

- Attained front-end development expertise via the GDG Frontend Bootcamp, mastering JavaScript, Tailwind CSS, and Firebase for dynamic web apps.

BootCamp | *DevTown Learnings*

- Attained full-stack proficiency mastering JavaScript, ReactJS, Node.js, Express.js, MongoDB, SQL. Developed dynamic, user-friendly web apps, showcasing versatility.

EDUCATION

Raghu Engineering College
Sri Chaitanya Junior College
Maria Montessori School

B.Tech in Electronics | Minors in Computer Science | GPA : 8.6
Maths, Physics, Chemistry | GPA : 9.6
ClassX | GPA : 9.7

*April 2024
jun 2020
jun 2018*

LEADERSHIP AND ACHIEVEMENTS

Leadership Roles

- IEEE Campus Treasurer: Managed financial oversight, budget planning, and allocation for campus events and projects.
- Coordinated Five IoT Teams: Led and organized multiple IoT project teams, ensuring timely delivery and innovation.
- Mentored Seniors in IoT Projects: Guided and trained senior students in IoT development and project execution.
- Taught Lectures to Classmates: Delivered instructional sessions, improving peer understanding of complex topics.
- Led Experimental Teaching Sessions: Conducted innovative teaching sessions to foster deeper learning among students.

Achievements

- AIR (All India Rank) 14, IEEE Xtreme 16.0: Achieved top ranking in a global coding competition, showcasing exceptional problem-solving skills.
- Campus 1st Prize, Culinary Event: Demonstrated leadership and creativity in non-technical campus competitions.
- AIR 356, Coding Ninjas CODEKAZE: Ranked among top competitors in a national coding contest, demonstrating technical proficiency.
- Campus 1st Place, IoT Project: Led a winning IoT project, excelling in technical innovation and implementation.

SUMMARY

- I am a positive and collaborative team member with strong real-world problem-solving skills. I have experience working with large language models (LLMs) and a passion for large-scale projects that present exciting challenges. I thrive in teams, committed to driving results and delivering innovative solutions.