

MALLIKHARJUNA ABHIRAM MULPURI

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EDUCATION

Purdue University, Fort Wayne, IN

Master of Computer Science, GPA : 3.83/4

August 2024 - May 2026

Koneru Lakshmaiah Education Foundation, Vijayawada, India.

Bachelor of Technology (Honors), CGPA : 9.37/10

June 2020 - May 2024

EXPERIENCE

PURDUE UNIVERSITY FORT WAYNE

September 2024 - Present

Student Academic Tutor

- Provided academic support in Mathematics and Science, improving comprehension and performance through tailored teaching methods.
- Conducted individual and group sessions to deepen understanding of complex topics and enhance problem-solving skills.
- Collaborated with faculty to align tutoring strategies with course goals, increasing program effectiveness.
- Developed and delivered supplemental resources, including practice exercises and review guides, to support classroom learning.

PROJECTS

Donna – Virtual Assistant | GitHub Repository - <https://github.com/parisha6/Doanna-Virtual-PA>

Technologies: *OpenAI, RAG, Microsoft Graph API, Deepgram, Elevenlabs, Rhubarb*

- Designed and implemented a conversational AI solution using OpenAI GPT, enabling context-aware natural language interactions to enhance user engagement and operational efficiency.
- Integrated Microsoft Graph API to facilitate real-time task automation, calendar synchronization, and structured documentation, improving workflow efficiency.
- Managed the deployment of AI-driven voice technologies, utilizing Deepgram for high-accuracy speech-to-text transcription and Elevenlabs for synthesized voice interactions.
- Optimized UI interactivity and user workflows using Rhubarb, ensuring a seamless user experience with intuitive design principles.

Journalify – A Digital Journaling App | GitHub Repository - <https://github.com/iAbhi001/JournalZ>

Technologies: *React, HTML, CSS, JavaScript, NodeJS, ExpressJS, MongoDB, Cypress, Netlify, Render*

- Designed and implemented a responsive UI using React with modular components, enhancing scalability and maintainability for dynamic user interactions.
- Developed and documented RESTful APIs with Node.js and Express.js, ensuring efficient data management and system interoperability.
- Structured and optimized MongoDB schemas to improve data retrieval performance, supporting seamless journal and user data storage.
- Implemented secure authentication workflows with hashed passwords and token-based authentication, reinforcing data security and access control.
- Supported process improvement initiatives, identifying areas for automation and optimization in software development workflows.

RESEARCH PUBLICATIONS

S. S. Mangalapalli, S. Venkata Pavan Kumar Munnangi, M. A. Mulpuri, S. Snigdha Reddy Goguladinne, S Kodukula and

S. Thatavarthi, "Data Mining in Education: A Review of Current Practices,"

2023 Third International Conference on Artificial Intelligence and Smart Energy (ICAIS), Coimbatore, India, 2023, pp.1507-1512,

doi: 10.1109/ICAIS56108.2023.10073932.

TECHNICAL CERTIFICATIONS

AWS Certified Cloud Practitioner

AWS Certified Developer Associate

RedHat Certified Enterprise Application Developer

Microsoft AZ900

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: Flask, Node.js, Maven, Jenkins, React, Bootstrap.

Developer Tools: Git, Docker, Azure DevOps, AWS, VS Code, Visual Studio, PyCharm, AWS, Google,