

# 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

Konuru 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,