

KEERTHI AJ

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ABOUT ME:

Keerthi is a passionate tech enthusiast with expertise in software engineering, cloud computing, and community engagement. As an MLSA Beta and Google Arcade Facilitator, she have mentored over 600 participants. Proficient in Python, and Java, with experience in TensorFlow, and Azure, they have published research in Springer and IEEE and hold a patent for an assistive device for the visually impaired.

TECHNICAL SKILLS

Programming:	JavaScript, HTML, CSS, Python, Java
Frameworks:	React, Node.js, TensorFlow, PyTorch, Node-Red, Azure Resource Manger
Tools & Technologies:	Git, VS Code, Firebase, Custom Vision, PowerApps, Power Automate, linux
Database & Cloud Services:	SQL, Azure, GCP

EDUCATION

Vellore Institute of Technology Integrated MTech Software Engineering CGPA: 8.69	Chennai, India July 2021 -2026
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Maharishi Vidya Mandir Senior Secondary School 12th Computer Science Percentage: 86.6%	Chennai, India 2020 - 2021
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WORK EXPERIENCE AND VOLUNTEER

Tech Mahendra <i>App development Intern</i>	Hyderabad Aug 2023 - oct 2023
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- As a PowerApps Developer, I focused on creating customized solutions using PowerApps, SharePoint, and Power Automate during my two-month tenure.
- I designed and implemented user-friendly applications to streamline workflows and enhance operational efficiency.
- This role allowed me to integrate various Microsoft tools to deliver seamless and scalable solutions.

Microsoft Learn Student Ambassadors <i>MLSA Beta</i>	2024 - Present
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- Hosted over 10 events on Azure Custom Vision and Cognitive Services, guiding and mentoring more than 100 participants.
- Through these events, I provided hands-on experience, shared in-depth knowledge, and supported participants in successfully conducting similar events, fostering learning and engagement in AI and cloud-based technologies.

Google Cloud Arcade Facilitator Program <i>Google Cloud Arcade Facilitator</i>	Aug 2024 - Sep 2024
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- Facilitated a learning program for over 500 participants as part of the Google Arcade initiative, supporting them throughout their learning journey.
- This experience allowed me to develop strong skills in communication and program management while fostering a collaborative and engaging learning environment.

PERSONAL PROJECTS

Smart Cap for the Visually Impaired

<https://github.com/KeerthiAvirneni/Integrating-Python-with-Hardware>

- Developed an assistive cap utilizing the OV7670 camera module for real-time object detection, integrated with the SSD MobileNetV3 model to accurately identify and alert users about nearby objects.
- This innovative solution eliminates the need for additional devices by combining compact hardware with advanced machine learning techniques, enhancing usability and convenience for visually impaired individuals.

Mydite Java , Firebase and XML

<https://github.com/KeerthiAvirneni/Mydiet>

- Developed an Android app, to track and maintain users' food habits, including product scanning for real-time data retrieval.
- Implemented deep learning algorithms to analyze scanned food items, calculating their calorie and fat percentage based on product data.

- Designed user-friendly interface with XML to ensure seamless interactions, enabling users to easily log and monitor their diet and nutritional intake.


AI-generated NFT

- Worked on an AI-generated NFT project where I used Solidity to connect the application with IPFS for storing data securely.
- I integrated API keys from Hugging Face to generate artwork using AI and used NFT Storage to convert the generated art into NFTs. This web app serves as a marketplace where users can create NFTs with AI and sell them on a testnet.

LawGpt

- An AI-powered chatbot designed to simplify legal research by providing precise, context-specific answers and relevant Indian Penal Code (IPC) sections using Azure OpenAI and Retrieval-Augmented Generation (RAG).
- Hosted on Azure App Services, it enhances accessibility to legal information, reducing search time and effort for both professionals and the public.

PUBLICATIONS AND CERTIFICATIONS

- **Flexible U-Net with Transfer Learning for Optic Disc Segmentation in Glaucoma Detection (2024)**
 <https://ieeexplore.ieee.org/abstract/document/10718433>
- **Oracle Cloud Infrastructure 2024 Generative AI Certified Professional (Sep 2024 - Sep 2026)**
- **Agile Scrum in Practice (Dec 30 2024)**