

# BHARADWAJ REDDY VANCHA

Hyderabad, Telangana

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## EDUCATION

**Keshav Memorial Institute of Technology**  
*Bachelors in Computer science - CGPA : 8.74*

**2022 – 2026**  
*Hyderabad, Telangana*

## COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- Database Management System(DBMS)
- Functional Programming
- OOPS Concept
- AI & ML

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, C++, Dart, JavaScript, TypeScript, SQL.

**Developer Tools:** VS Code, Android Studio, IntelliJ Idea Ultimate.

**Technologies & Frameworks:** AWS (EC2, EBS, VPC), Docker, Kubernetes, CI/CD (GitHub Actions), Git, GitHub, ReactJS, NextJS, ExpressJS, MongoDB, PostgreSQL, FastAPI, Flask

## PROJECTS

**Product Review Chat System with AI** 🔗 | [MERN Stack, FASTAPI, Ollama, Hugging Face](#) **12/2024**

- Developed an **AI-powered chatbot** for **Amazon product reviews**, leveraging **Natural Language Processing (NLP)** and **RAG (Retrieval-Augmented Generation)** models.
- Built a **hybrid web and mobile application**, ensuring a seamless and unified user experience.
- Enabled users to ask questions and receive AI-generated answers using review context.
- Saved time by instantly delivering relevant insights via a RAG (Retrieve and Generate) approach.
- <https://github.com/Bharadwajreddy1406/ReviewBot>

**Data Scraping Tool for Osmania University Results** 🔗 | [Flask,HTML,CSS,JavaScript](#) **09/2023**

- Developed a **multi-threaded web scraper** for **Osmania University results**, using **Python, BeautifulSoup, and Pandas**, reducing data entry time from **2-3 days to 5-10 minutes** and cutting manual labor by **90%**.
- Received positive feedback from both work personnel and college for the effectiveness of the project.
- [Live site here - https://ou-ngit-kmit-rywa.onrender.com/](https://ou-ngit-kmit-rywa.onrender.com/)

**Mock Interview System** 🔗 | [PERN Stack, REST API, AI Question Generation](#) **04/2024**

- Built a scalable platform for institutions with a multi-tier admin system (app admins and college admins) to manage interview sessions.
- Enabled text and voice-based interviews with real-time feedback, boosting student confidence.
- Implemented a comprehensive student management console for scheduling sessions and tracking performance.
- Leveraged AI APIs to dynamically generate resume and topic-based interview questions.
- [GitHub Repository](#)

**Breast Cancer Detection and Segmentation** 🔗 | [Python \(PyTorch, TensorFlow\), MERN Stack](#) **06/2024**

- Adapted and implemented **deep learning models** for breast cancer classification and segmentation using ultrasound images.
- Achieved **89% accuracy** in classification using **Vision Transformer** and **ResNet**.
- Implemented **U-Net** and **UNetR** for segmentation, reaching **94% accuracy**.
- Trained models on the **BUSI dataset** (sourced from Baheya Hospital, obtained via Kaggle).
- [Relevant Work Here](#)

## MORE

- [Contribution to develop an AI tool for malware detection with Machine Learning, on GitHub](#)

## ACHIEVEMENTS & AWARDS

- Finalist In HackXcelerate hackathon By Microsoft in CBIT.
- Winner at Internal Hackathon In KMIT.
- Winner at Code Purple Project Expo held By IEEE in Muffakham Jah College of Engineering.