D Veera Harsha Vardhan Reddy

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EDUCATION

BML Munjal University | Gurugram, Haryana   *Current CGPA: 8.32 | 2021 - 2025*
Bachelor of Technology in Computer Science

Sri Chaitanya CO-Edn JR College | Vijayawada, Andhra Pradesh   *Marks: 928/1000 | 2019 - 2021*
Higher Secondary - 12th (State Board)

The Nandyal Public School | Nandyala, Andhra Pradesh   *Marks: 459/500 | 2019*
Secondary Education - 10th (CBSE Board)

EXPERIENCE

BML Munjal University (CAMD) | *Research Student*   *On-Site | May 2024 – Dec 2024*

- Conducted research on information processing and memory devices for neuromorphic computing. Developed carbon and titanium-nitride thin films using **physical vapor deposition** techniques. Measured **I-V** characteristics of deposited samples to identify resistive switching, analyzing current behavior at various voltage levels.
- Characterized thin films using advanced techniques, including X-ray Diffraction (**XRD**), **Raman** Spectroscopy, **UV-Vis** Spectroscopy, Scanning Electron Microscopy (**SEM**) and Energy Dispersive X-ray Spectroscopy (**EDX**). Designed and implemented **in-house software** to interface with Keithley Instruments for precise neuromorphic device measurements.
- Demonstrated strong technical expertise, problem-solving skills, and a commitment to advancing materials research.

Webfosys Networks Pvt | *Intern*   *Hybrid | May 2023 - July 2023*

- Built and customized multiple websites using **WordPress**, demonstrating proficiency in various themes and functionalities.
- Created engaging creatives for articles, significantly improving their visual appeal and user engagement.
  Tech Stack Used: Canva, AdSpy, PubPlus, WordPress, Shopify.

SKILLS

- Programming & Development: Java, Python, C, C++, ABAP, Dart, HTML, CSS, SQL, Flutter, Deep Learning, Machine Learning, XAI (EigenCAM, Grad-CAM)
- Tools & Platforms: MySQL, Git, GitHub, Google Colab, SAP, Figma, Canva, WordPress, Shopify, Adspy, Pitch, Microsoft Office, PubPlus

PROJECTS

- **AgriGuardian App - 2024|** *Dart,Python*   *Github*
  - Developed **Agri Guardian**, an innovative application designed for rice leaf disease detection through advanced image recognition techniques both Classification and Object detection. The underlying model is based on Convolutional Neural Networks (**CNN**), **Yolov8n** chosen for its superior accuracy in disease detection tasks**.**
  - Integrated features like **camera and gallery** options for uploading leaf images, along with an **Agri Finance** module where users can add income, expenditure, and their descriptions. Added a **shop** option for users to purchase relevant products by checking on disease page. The app is launched and is live on Indus App Store by PhonePe.
- **Hatetron Chatbot - 2023 |** *Dart,Python*   *Github*
  - Developed a chatbot using ML, MAD and HCI concepts. Worked with techniques such as EDA, Logistic Regression, **Random Forest, NLP**, Flutter, Storyboards and Fidelity Prototypes.
  - HATETRON is a chatbot (Flutter Application) for detecting Hate Speech, Offensive Language and Safe Speech. Chatbot was developed as a project to identify and address hate speech on the Internet. The **ML** model used **Logistic Regression** and **NLP**.
- **Pneumonia Detection Website - 2023 |** *Python*   *Github*
  - Developed a **Pneumonia Detection Website**, implemented multiple deep learning models, including CNN, ResNet152V2, fine-tuned ResNet152V2, and VGG-16, to detect pneumonia in chest X-ray images. Achieved high accuracy across all models, with the fine-tuned **ResNet152V2** demonstrating exceptional performance, reaching 96% accuracy.
  - Additionally, we created a user-friendly website using Streamlit, enabling seamless deployment of the detection system for real-time analysis by allowing users to upload chest X-ray images directly.
- **Hotel Room Booking Website - 2022 |** *HTML, CSS*   *GitHub*
  - Developed a **Hotel Room Booking Website** using HTML and CSS and deployed on GitHub for easy access. Designed a user-friendly interface, with HTML providing the structure and CSS for styling. Leveraged GitHub for version control and deployment, ensuring seamless collaboration and accessibility.

ATHLETICS

- Won Gold Medal, Silver Medal in District and State Taekwondo Competition.
- Represented BMU Football in multiple Inter University Fests.