

# VISHNU VARDHAN GOWD VAKA

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## EDUCATION

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### VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY

Guntur, India

Bachelor of Technology

Expected July 2024

- **Course:** Computer Science and Engineering (AI&ML)
- **Cumulative GPA:** 8.83/10
- **Relevant Coursework:** Full stack Web Development - ReactJS, Django, MongoDB, MYSQL, Python, Java, JavaScript, Artificial Intelligence, Machine Learning, Natural Language Processing, Cloud Computing, AWS Cloud & DevOps.

### VIGNAN JUNIOR COLLEGE

Vadlamudi, India

Intermediate

June 2018 - Jul 2020

- **Course:** MPC
- **Percentage:** 96%

## WORK EXPERIENCE

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### NLP Engineer

Tenali

Solomons International Technologies Pvt. Ltd

August 2023 – Feb 2023

- Enhancing language understanding with precision by developing and fine-tuning advanced NLP models (BERT, GPT) for text generation, summarization, and extraction, resulting in a 20% improvement in content accuracy.
- Improved overall accuracy by 85% through NLP fine-tuning, semantic analysis, and full-stack development (React JS, Spring Boot, MySQL) on AWS.

### AI Developer

Remote

Persist Ventures

June 2023 – September 2023

- Developed a deep neural network model to convert a 2D NFT image to an 3D (.obj) model.
- Applied GAN for 73% accurate NFT full-body generation and PiFu with 80% accurate 3D reconstruction.

### Conversational AI Chatbot Development Intern

Remote

Inspirerace Digital Media

May 2023 – August 2023

- Engineered a personalized web app with user data (baby's age, gender) to deliver custom suggestions, resulting in a 30% increase in engagement for new mothers.
- Utilized Machine Learning (similarity search) and NLP (LLM & embedding models) for reducing the GPT cost by about 10%.

## PROJECTS

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### Satellite maps to Aerial maps

- Satellite-to-Aerial map converter works using U-Net segmentation with IoU score of 0.62 with a dice loss of 0.19 and Pix2pix image translation.
- The overall accuracy of the model in generating of street views is 83%.

### Brain Tumor Detection

- Utilized deep learning U-Net model for segmentation (IoU score 0.73), with ReactJS UI & Django API integration.
- The model is trained to detect 3 main tumors Meningioma, Astrocytoma, Gliomas with an accuracy of 87%.

### Private GPT

- Innovative document interaction, allowing users to upload files, pose content-related queries, and achieve parsing within 4-5 minutes.
- Employed Falcon-7b LLM, embedding model, and cosine similarity, yielding a 30% enhancement in document

retrieval accuracy.

## SKILLS

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### Technical skills:

- **Data Science:** Machine Learning, Deep Learning, Natural Language Processing.
- **Programming Languages:** Python,Java.
- **Web Development:** ReactJS,Django,HTML,CSS,JavaScript.
- **Databases:** MySQL,MongoDB, DBMS.
- **Version Control:** Git and GitHub.
- **Cloud Computing:** Amazon Web Services (AWS), Microsoft Azura.
- Data Structures & Algorithms.

### Soft Skills:

- Curiosity and Willingness to Learn, Analytical, Leadership, Collaboration.

## ACHIEVEMENTS

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- Scored 95% in JEE mains.
- District level volleyball player.

## CERTIFICATIONS

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- AI For Everyone (DeepLearning.AI)
- Getting Started with Python (University of MICHIGAN)
- Basics of Python (Infosys Springboard)
- Machine Learning Foundations (AWS Academy)
- Introduction to Machine Learning (Infosys Springboard)
- Designing a Low Fidelity Prototype in Figma (Coursera Project Network)
- Artificial Intelligence & Machine Learning (AICTE)
- Deep Learning with PyTorch (Infosys Springboard)
- Cloud Operations (AWS Academy)
- Front-End Web Development with React (University of HONG KONG)
- Data Analytics (AICTE)
- Cloud & DevOps (EPAM Center of Excellence)
- Cloud Architect (AWS Academy)
- Azure Developer Associate (Microsoft)

## LANGUAGES

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- English, Hindi, Telugu