SHINDE VINAYAK RAO PATIL

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EDUCATION

IIIT-Hyderabad.   2024 - Present
Master of Science in Data Science

Hyderabad Institute of Technology and Management-Hyderabad.   2020 - 2024
Bachelor of Technology in Computer Science and Engineering with 7.00 CGPA.

Sri Chaitanya Junior College -Hydernagar   2018 - 2020
MPC in Intermediate `with 8.83/10 GPA

Vasavi High School-Bhainsa   2017 - 2018
SSC State Board with 9.0/10 GPA

PROFESSIONAL EXPERIENCE

AI Developer - Intern
At Plausibility Solutions   Oct 2023 -April 2024
- Built and deployed multiple RAG-based chatbots using LLMs.
- Designed end-to-end RAG pipelines for contextual response generation.
- Fine-tuned LLMs and optimized retrieval for improved accuracy.
- Collaborated on model evaluation and performance enhancement

Natural Language Processing Intern
At International Institute of Information Technology Hyderabad (IIITH)   July 2023 - Nov 2023
- Researched emphasis patterns in spoken vs. text summarization using TEDx talks.
- Built models for keyword extraction and summary generation.

Parallel Programming Using OpenMP and CUDA   Jan 2023 - Jan 2023
- Completed a two-day workshop on Parallel Programming using OpenMP and CUDA at VCET in January 2023.
- Gained hands-on experience in parallel computing techniques for high-performance applications.

AI Developer - Intern
Eunoia Innovations Private Limited   Feb 2022 - Feb 2023
- Completed a one-year internship working on the Aqua Skimmer project.
- Developed AI models, analyzed water sensor data, and integrated AI with hardware components like thrusters and actuators.
- Gained experience in testing, validation, team collaboration, and technical documentation for AI-hardware systems.

LEADERSHIP & ACTIVITIES

Student Placement Coordinator – IIIT-H   May 2025 - Present
- Coordinated placement activities between students and recruiters at IIIT-H.
- Managed student data, organized interviews, and supported career preparation efforts.

SSG-HITAM
Student Dena Industry Institute Interaction Cell (IIIC) and Sports   May 2023 - May 2024
- Served as Student Dean overseeing IIIC and sports at IIIT-H.
- Bridged academia and industry through IIIC to enhance student career readiness.
- Promoted teamwork and leadership by actively participating in institute-level sports events and tournaments.

Google Developer Student Club   **Aug 2022 - Aug 2023**
Head of research and development
- Led and managed R&D efforts of the club, overseeing research initiatives and project execution.
- Guided teams, drove innovation, and provided strategic direction for successful project development.

TECHNICAL SKILLS & INTERESTS

Technical Skills
- **Programming Languages:** Python, Java, MATLAB.
- **Libraries & Frameworks:** TensorFlow, PyTorch, OpenCV, scikit-learn, Hugging Face Transformers
- **Generative AI & VLMs:** LangChain, OpenAI API, RAG pipelines, LLM fine-tuning, VLM (e.g., CLIP, BLIP, Flamingo)
- **Databases:** MySQL, MongoDB, Redis, Pinecone
- **Cloud Services**: Google Cloud
- **Tools:** Git, Jupyter Notebook, MS Word, Excel

Languages:
- English (Fluent), Telugu (Fluent), Hindi (Fluent), Marathi (Native)

Personal Skills:
- Creative thinking, Leadership, Problem-solving, Financial planning

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CERTIFICATIONS , AWARDS AND HONORS

- **NPTEL Certification – Python (2023):** Scored 83% (Conducted by IIT Kharagpur)
- **NPTEL Certification – Deep Learning (2023):** Scored 50% (Conducted by IIT Kanpur)
- **KAVACH 2023 Cyber Hackathon @ HITAM:** Secured 2nd Place
- **Student of the Department Award – CSE (2024):** Recognized for academic excellence and contributions to the department

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PATENTS AND PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

[C.1] **Automated Bot Detection on Twitter Using URL Patterns and Learning Automata.**
Int. J. Eng. Tech. & Mgmt. Sci. Vol. 8, Issue 3, May-June 2024
Status: Published
DOI: 10.46647/ijetms.2024.v08i03.025

[C.2] **Speaking Hands: Advancing Communication with Gesture Recognition Systems.**
International Conference on Computational Intelligence and Communication Networks (ICCICN-24)
Status: Accepted

[P.1] **Real-Time Violence Detection System Using AI for CCTV Surveillance**
- An Improved Version in Artificial Intelligence and Machine Learning Algorithm to Detectthe Percentages of Violence and Non-Violence from Real-Time CCTV Monitoring.
- **PatentApplication No:** 202341029626
- This advanced Artificial Intelligence and Machine Learning algorithm is designed to detect instances of
- violence in real-time through continuous monitoring of CCTV footage. When it identifies violent behavior,
- it promptly alerts the user, enhancing security and situational awareness.

PROJECT

Project Title:- VLM-Based Video Analytics with Semantic Search

- Built a Flask app for video upload, frame extraction, and VLM-based captioning
- Summarized content using Hugging Face models; stored embeddings in Pinecone
- Enabled semantic search and video understanding via a web interface

Project Title:- AI Chatbot for College Admissions

- Built a GPT-3.5 + RAG-based chatbot for college admissions.
- Delivered info on deadlines, fees, and eligibility.
- Integrated with systems, including voice and accessibility support.

Project Title :- Emotion Identification

- Built a speech emotion recognition model using the CREMA-D dataset (7.4k clips, 6 emotions).
- Used MFCCs for feature extraction and LSTM for classification.
- Applied Python tools: Librosa, NumPy, Pandas, Scikit-learn, Matplotlib.
- Achieved emotion labeling with crowd-sourced data from 2.4k+ raters.