

Harshitha Upadhyayula

VNR VJIET

Hyderabad, Telangana, India

+91-9573908229 • harshitha.srikk@gmail.com

www.linkedin.com/in/xxxxxxxxxx • www.github.com/U-Harshitha



Education

Program	Institution/Board	CGPA/%	Year
<i>B.Tech.</i> (Computer Science)	VNR VJIET	9.3/10	2022 - Present
<i>Intermediate</i> (MPC)	Narayana Jr College	9.8/10	2020 - 2022
<i>Secondary School</i>	CMR International School	9.6/10	2020

Key Projects

Designed a chess engine to enhance AI-based gameplay by integrating Monte Carlo Tree Search (MCTS) and neural networks.
Beta 0

- Implemented using Transformers, TensorFlow, and Stable Baselines3 in Python for efficient AI-driven decision-making.
- Keywords: MCTS, Neural Networks, Transformers, TensorFlow, Reinforcement Learning, Python*

Developed a web-based tool to automate document extraction and conversion, reducing manual effort in data research.
Doc Scraper

- Built using Python, Selenium, React, MongoDB, and Google Generative AI API for intelligent document parsing.
- Keywords: Web Scraping, OCR, Generative AI, React, MongoDB, Selenium, Python*

Created a dynamic maze-solving platform to generate, store, and track user progress across multiple sessions.
Maze Runner - Full-Stack Phoenix Application

- Implemented using Phoenix LiveView, Elixir, and WebSockets for real-time updates and an interactive user experience.
- Keywords: Phoenix LiveView, Elixir, WebSockets, Full-Stack Development, Real-Time Systems*

Engineered a few-shot learning model for iris-based disease classification, addressing the challenge of limited medical data.
Iris-Based Multi-Disease Prediction

- Used MBSIF Siamese Networks, meta-learning, and contrastive loss to enhance prediction accuracy on small datasets.
- Keywords: Few-Shot Learning, Siamese Networks, Meta-Learning, Contrastive Loss, Medical AI*

Research Work

Explores the integration of the Internet of Medical Things (IoMT) with artificial intelligence (AI) to revolutionize healthcare.
Internet of Medical Things and AI in Healthcare

- Keywords: IoMT, AI in Healthcare, Medical Devices, Data-Driven Decision Making*

Analyzes the cognitive science perspective of thought as an internal language-like representation. Discusses its implications for AI.
Language of Thought Hypothesis

- Keywords: Cognitive Science, Symbolic AI, Neuro-Symbolic Reasoning, Thought Representation*

Designing an intuitive interface using computer vision (eye-tracking) and speech recognition to reduce reliance on traditional input methods.
A Novel Framework for Digital Accessibility

- Keywords: Digital Accessibility, Computer Vision, Eye-Tracking, Speech Recognition, Adaptive Learning*

Technical Skills

- Programming:** Python, Java, Scala, C++, R, JavaScript, Go, Elixir
- Web Development:** React.js, Flask, Phoenix, Ruby on Rails, Tailwind CSS, Appwrite, MongoDB, MySQL
- AI/ML Libraries:** TensorFlow, Keras, PyTorch, Scikit-learn, TensorFlow.js, NumPy, Pandas
- Cloud DevOps:** AWS, Azure, GCP, Docker
- Tools:** Git, VS Code, Figma, LaTeX

Positions of Responsibility

- o **Vice President**, StreetCause VNRVJIET - Led fundraising initiatives and oversaw project execution to support the development of multiple schools and orphanages.
- o **Documentation Head**, Computer Society of India (CSI) - Action Committee - Managed documentation and actively participated in organizing technical events and skill-enhancing workshops.
- o **Hospitality Head**, TEDxVNRVJIET - Assisted in organizing motivational events to provide a seamless experience for speakers and attendees.
- o **Volunteer**, Turing Hut - Contributed to technical initiatives and student engagement activities.
- o **Organizing Committee**, Hult Prize - Played a key role in event organization and logistics.
- o **Main Organizer**, Designathon - Led the planning and execution of a large-scale design competition.

Workshops

- o Participated in the webinar, *Foundations of Vedic Mathematics* conducted by SSNU, Tamil Nadu (20xx).
- o Participated in the webinar on *NBA Accreditation & Role of Stakeholders in the light of National Education Policy (2020)*, organized by Women's polytechnic, Tripura in association with NITTTR, Kolkata (20xx).
- o Participated the *International Youth Web-Conclave on Vasudhaiva Kutumbakam*, jointly organized by Sixth Sense Foundation, Shree Sisters, Kongunadu Arts and Science College, Sri Sarada Niketan College of Science for Women and Global International School (Nov 20xx).
- o Attended the workshop on *Program for Aspiring College Teachers (PACT)*, conducted by TLC, IIT Madras (20xx).

Achievements/Awards

- o Successfully qualified *UGC-NET* (20xx), *SLET-NE Region* (20xx), *WB-SET* (20xx) and *GATE* (20xx).
- o Secured 3rd rank out of 540 in *Virtual Product Management Experience Project* conducted by Quollab (20xx).
- o Competed in the *Code To Japan Algorithms and Code To Japan AI* challenge, with overall 188/746 (20xx).
- o Awarded as *Star Teaching Assistant* for contribution as a Teaching Assistant, by CSE Department, IIT Madras (20xx).
- o Received the *Certificate of Appreciation* for donating blood, State Blood Transfusion Council, West Bengal (20xx).
- o Secured *2nd in quiz competition* in Rotary Youth Festival held by Rotary Club of Tura, Meghalaya (20xx).
- o Secured *1st in quiz competition* in Rotary Youth Festival held by Rotary Club of Tura, Meghalaya (20xx).
- o Secured *Consolation Prize* in essay writing competition on topic *Conservation of Natural resources* held by Soil Conservation Department, Meghalaya (20xx).

Others

- o **Hobbies:** Travelling, Cooking, Debating, Dancing, Anime, Photography and Editing
- o **Strengths:** Problem-Solving, Leadership, Teamwork, Adaptability
- o **Languages:** Bengali, Hindi, Assamese, Nepali, Garo

Declaration

I do hereby declare that all the details furnished above are true to the best of my knowledge and belief.

Harshitha Upadhyayula