# MONISHWAR REDDY VARDIREDDY

## ASPIRING RESEARCHER

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**Portfolio: Click here**

## SKILLS

- **Programming:** Python, C, R, Latex.
- **Tools:** VS Code, Jupyter Notebook, Google Colab, Overleaf.
- **Research:** Artificial Intelligence, Mathematical Modeling, Data Analysis, Pyrolysis of Animal manure.
- **Soft Skills:** Team Work, Analytical Ability, and Communication.

## EDUCATION

Bachelor of Technology, (2023-2027)
**Specialization: Computer Science Engineering (Core)**
Woxsen University, Hyderabad, Telangana, India.
**CGPA: 8.61**

Intermediate (10+2), (2021-2023)
**Percentage: 83.7%**

SSC, (2021)
**GPA: 9.2**

## INTERESTS

- Research.
- Data Analysis.
- Competitive Vibe Coding.

## CERTIFICATIONS

- Machine Learning with Python.
- Probability & Statistics for Machine Learning & Data Science.
- Python Programming Essentials.
- Crash Course on Python.
- AI For Everyone.

View the Course Certificates here

## LANGUAGES

- English
- Telugu
- Hindi

## PROFESSIONAL SUMMARY

Passionate about technology and sustainability, with hands-on experience in AI research, data analysis, and scalable AI-driven solutions. Skilled at leveraging data-driven insights to develop impactful strategies that contribute to building a better future.

## EXPERIENCE

**Woxsen University - Research Assistant** **(May 2025 - Present)**

**Main outcomes:** Epidemic Modelling, SEIR, Monte Carlo, and Predictive Analytics.

- Analyzed SEIR epidemic models, Monte Carlo simulations, and complex predictive systems.
- Generated insights on disease spread and probabilistic behavior to strengthen research outputs.

**Woxsen University - Research Intern** **(Feb 2024 - Jul 2025)**

**Main outcomes:** ECG Signals, HMI, Research.

- Part of a brain-computer interaction project.
- Conducted EEG experiments and data analysis.
- Published findings on brain-signal measurement.

**HCL Tech - Biomedical Signal Processing Intern** **(May 2025 - Jul 2025)**

**Main outcomes:** Cardiac Classification, ECG Processing, CNN Model, Deep Learning.

- Designed a lightweight CNN integrating DWT + SVD with complete preprocessing and feature fusion.
- Achieved high MI subtype accuracy validated through ROC and performance evaluations.

**Tedis Foundation - Founder** **(Jan 2025 - Jul 2025)**

**Main outcomes:** Tech Diplomacy, Global Leadership, MUN Initiatives.

- Founded an international platform integrating technology, diplomacy, and youth leadership.
- Led collaborations across India, Mongolia, and UAE, including TEDIS 2025 MUN.

**Tiaano - R&D Analyst Intern** **(Jul 2024 - Nov 2024)**

**Main outcomes:** Experimental Research, Data Analysis, Insight Generation.

- Conducted experimental studies, dataset analysis, and solution-oriented evaluations.
- Delivered strategic insights adopted in implementation through detailed research reports.

**Woxsen University - Data Analyst Intern** **(Oct 2023 - Apr 2024)**

**Main outcomes:** Social Media Strategy, Engagement Metrics, Content Optimization.

- Developed social media strategies and analyzed LinkedIn engagement metrics.
- Enhanced university visibility and audience engagement through digital content optimization.

View the Internship Certificates here

## RESEARCH & PUBLICATIONS

- Venkatanarayana Pappula, Karre Saisuvan Reddy, Abhishek Reddy, Monishwar Reddy Vardireddy. **Various Methods For Plastic Waste Pyrolysis To Fuels: A Review**. Journal of Polymer and Composites. 2025; 13(04):79-93.

- Vardireddy, Monishwar Reddy, and Pranjali Gajbhiye. "**Integrating EEG Analysis to Illuminate Consumer Behavior and Optimize Marketing Strategies.**" The Quantum AI Era of Neuromarketing. IGI Global Scientific Publishing, 2025. 157-172.

- **RAMANUJAN EQUATION: AN APPROACH THROUGH SYMMETRY** (Accepted).

- **DWT–SVD-based Feature Extraction with CNN for the Detection of Myocardial Infarction using ECG Signal** (Accepted).

- **Exploring Music Effects on Human Emotion Emerging Through EEG: A Systematic Literature Review** (Under Review).

## CONFERENCES

- 2025 UNC Greensboro Virtual PDE Conference.

Presented my Research Work on **Analysis of SEIR Model around the Singularities**.

- Symmetry2024 Conference.

Presented my Research work on **Review of Solution Procedures of Certain Ecological Models.**

- CHEMFLUX 11.0.

Presented my Research work on **Analysis on Certain Ecological Models Applied on Real Life**.

## REFERENCES


**Dr. Amlan Kantri Halder**
Head of Mathematics,
WoxsenUniversity, Hyderabad
Email: amlankanti.halder@woxsen.edu.in

**Prof. PGL Leach**
Honorary ResearchProfessor, Durban University of Technology, South Africa
Email: leachp@ukzn.ac.za

**Dr. Pranjali Gajbhiye**
Neuroscientist, Woxsen University, Hyderabad
Email: pranjali.gajbhiye@woxsen.edu.in


## ACHIEVEMENTS

- Agentathon 2025- Guinness World Record Certificate
- Code with Kiro Hackathon - Bonus Blog Prize Winner.
- Udhgam 2025 DigiTech Hackathon – 3rd Prize Winner.
- Certificate of Recognition, RMEPT (Mauritania) 2025.
- Best Delegate, GDSMUN 2025.

## KEY PROJECTS

**CampusConnect** **Nov 2025 - Nov 2025**

A comprehensive AI-powered platform that makes student life easier, smarter, and more fun. From AI moderation, auto-tagging, and summaries to a spooky dark UI, this is the ultimate campus community experience.

**AI Risk Dashboard** **Nov 2025 - Nov 2025**

AI Environment Dashboard is a smart, serverless web app that visualizes real-time environmental data such as temperature, humidity, and air quality. It uses Flask and Google Cloud Run, with AI-powered logic through Google AI Studio (Gemini API).

**AI Interactive Dashboard** **Nov 2025 - Nov 2025**

AI Tutor is an educational web application demonstrating the power of AI-assisted learning. Users paste code, problems, or any text content and receive instant, step-by-step explanations powered by Google's Gemini AI model.

-More about my projects on GitHub.