Hemanth Kumar Reddy

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Education

Amrita Vishwa Vidyapeetham, Chennai 2022-2026
Computer science (Artificial Intelligence) Bachelor of Technology CGPA: 8.35

Narayana jr. College, Vijayawada 2020-2022
Mathematics & Science Stream Percentage: 91%

ST Thomas E.M High School, Anantapur 2020
High school CGPA: 10

Skills

Programming Languages:	Java, Python
Cloud and Databases:	AWS Cloud, MySQL (DBMS)
Web Technologies:	HTML, CSS, JavaScript, Docker
Developer Tools and Frameworks:	Django, VS Code, Git/GitHub
Operating Systems:	Linux, Windows
AI/ML and Algorithmic Expertise:	Machine Learning, Deep Learning, Data Structures and Algorithms
Soft Skills:	Leadership, People Management,Presentation Skills,Team Collaboration

Research and Outreach Projects

Sacred Geography and Cultural Resilience – Labdang Village, Sikkim *Live-in-Labs® Project, May 2025*
- Conducted fieldwork on sustainable tourism and cultural resilience in a sacred Himalayan village.
- Explored spiritual geography, knowledge transfer, and ritual tourism as sustainable models.
- Engaged with local elders, youth, and custodians to recommend heritage preservation strategies.

Projects

Scalable Duplicate File Detection Using Clustering and Hashing Dec 2023
- Developed a hybrid method combining SHA-256 hashing with clustering (DBSCAN, K-means, Hierarchical).
- Demonstrated DBSCAN's efficiency in handling clusters and noise, outperforming other methods.
- Tools used: Python, Scikit-learn, NumPy, Pandas, hashlib.

Skin Lesion Classification using EfficientNetB3 Sep 2024
- Built an EfficientNetB3-based model for multi-class skin lesion classification using the ISIC 2018 dataset.
- Applied advanced data augmentation and fine-tuning to improve generalization and reduce overfitting.
- Achieved 99.95% training accuracy, 94.03% validation accuracy, and 93.49% test accuracy.
- Tools used: Python, TensorFlow/Keras, EfficientNet, ISIC 2018 Dataset, Matplotlib.

Faculty Calendar Scheduler Interface Mar 2025
- Engineered an intuitive web app to streamline faculty scheduling, meetings, and course allocations.
- Implemented smart conflict resolution for overlapping events across multiple faculty calendars.
- Tools used: HTML, CSS, JavaScript, Django, SQLite.

Certifications

AWS Academy Cloud Foundations
- Learned core AWS services like VPC, EC2 instances, and cloud computing fundamentals.

CS50's Introduction to Programming with Python
- Gained hands-on experience in Python programming, including data structures, algorithms, and problem-solving