

CAREER OBJECTIVE

Motivated AI and Data Science professional with expertise in building end-to-end ML pipelines, from data preprocessing to model deployment. Seeking opportunities to apply proficiency in deep learning, computer vision, and generative AI to develop scalable solutions while continuously enhancing technical skills in a challenging role.

ACADEMIC DETAILS

Course	Institute / University	Year of Passing	Grade/Percentage
B.Tech in Artificial Intelligence and Data Science	Amrita Vishwa Vidyapeetham, Coimbatore	2023 – 2027	7.15 / 10
Intermediate	Tirumala Junior College	2023	97.0%
10th	Tirumala Educational Institutes	2021	100%

EXPERIENCE

- Zaytoon Solutions** Bangladesh
AI Chatbot Developer Jun 2025 – Jul 2025
 - Banking Chatbot:** Built AI-powered chatbot integrating backend database queries with LLMs to handle predefined and unseen queries.
 - Bangla Support:** Implemented Deepseek + NLLB + Bangla-LLaMA for direct Bangla input-output translation.
 - UI Development:** Prototyped interface in Gradio; later developed custom UI for better usability.
- Amrita Vishwa Vidyapeetham** Coimbatore, India
Research Intern – Lip-to-Speech Synthesis Jun 2025 – Ongoing
 - Lip-to-Text Model:** Designed 3D CNN + Transformer encoder trained on LRS2 dataset using CTC loss.
 - Visual TTS:** Generated synchronized speech audio using phoneme text + lip video features.
 - Voice Cloning:** Applied Real-Time Voice Cloning for personalized embeddings.
 - Speech Synthesis:** Synthesized high-quality audio using BigVGAN vocoder.
 - Dataset:** Prepared dataset with 30 speakers, 7 sentences each (25 FPS, 16kHz audio).
 - Tools:** PyTorch, OpenCV, FFmpeg, Transformers, BigVGAN.

RESEARCH PUBLICATIONS

- Identification and Sorting of Objects by Color using Robotic Arm:** Patnayakuni Hari Gopal Vatsal, Vattikuti Sri Mahesh Abhiram, S Janaki Ramamjaneya Reddy, Mohit Madhav Kuthadi. *2025 6th International Conference on Recent Advances in Information Technology (RAIT)*, March 2025. DOI: 10.1109/RAIT65068.2025.11088895

PROJECTS

- Translational Models:** Fine-tuned LLMs for English–Telugu translation tasks.
- Code Generator Chatbot:** Fine-tuned CodeLLaMA on Python CodeX dataset for code generation with explanation pipeline.
- Plant Disease Detection Vehicle:** Autonomous vehicle with ML-based disease detection, GPS tracking, and treatment suggestions.
- Smart Blind Hat:** Assistive wearable with OCR, DeepSort detection, and voice guidance.
- Hand Gesture Controlled Robotic Arm:** Robotic arm using flex + accelerometer sensors.
- Color Sorting Robotic Arm:** Raspberry Pi + CNN for color detection and sorting.
- Catalyst Identification:** Applied Random Forest, XGBoost, and ML models.
- Smart Bandwidth Allocation:** ML algorithms for dynamic bandwidth allocation.
- Decision Tree Generator using AVL Trees:** Developed tree-based decision generator.

TECHNICAL SKILLS

- **Languages:** Python, C, Java (Basic), Scala
- **Technologies:** PyTorch, TensorFlow, Hadoop, Machine Learning, Deep Learning, NLP, Generative AI, LLMs, Data Visualization (Matplotlib, Seaborn, Tableau basics)

PERSONAL STRENGTHS

- Good team player
- Quick learner
- Creative thinking
- Good logical reasoning
- Excellent communication skills

HOBBIES

- Gaming, watching movies, and gardening.

PERSONAL DETAILS

- **Date of Birth:** 05 December 2005
- **Languages Known:** Telugu, English
- **Permanent Address:** Kommugudem, Andhra Pradesh