

# SUSHANTH DONDAPATI

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## EDUCATION

### AMRITA VISHWA VIDYAPEETHAM

Bachelor of Technology

Major in Computer Science and Artificial Intelligence

Cumulative GPA: 8.5/10.0

Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Algorithms; Artificial Intelligence

Kollam, IN

Expected May 2025

### NARAYANA JUNIOR COLLEGE

Board of Secondary Education

Hyderabad, IN

Jun 2019 - Apr 2021

## WORK EXPERIENCE

### UNBOXING.COMUNITY

Machine Learning Research Intern

Remote

Sep 2024 - Nov 2024

- Developed an interactive product specification feature utilizing long-press gestures, enhancing user engagement and product understanding
- Integrated Gemini for **natural language processing** to dynamically generate contextual Q&As about product specifications, improving user education
- Implemented a scalable data architecture using **GCP and AWS**, enabling efficient storage and retrieval of product information

### AMRITA CENTER FOR WIRELESS NETWORKS AND APPLICATIONS(AWNA)

Student Intern

Kollam, IN

Feb 2023 - Aug 2024

- Gained expertise in deep learning, **NLP**, and **computer vision** through hands-on projects.
- Participated in 3 healthcare AI projects and **hackathons**, resulting in improved diagnostics and patient outcomes.
- Published 2 **impactful papers** presented at international conferences, influencing healthcare practices.

## UNIVERSITY PROJECTS

### FEDERATED UNLEARNING

Aug 2024

- Developing a framework to detect and mitigate inverted loss attacks in federated learning systems through Variational Autoencoders, enhancing model security and accuracy.
- Implementing machine unlearning techniques to isolate and reverse the impact of malicious clients

### DIGITIZATION AND CLASSIFICATION OF ECG IMAGES

Jul 2024

- Developed open-source algorithms for **reconstructing ECG** waveforms and **classifying CVDs** from physical ECGs, as part of the George B. Moody PhysioNet Challenge 2024
- Used various techniques such as **grid removal**, **baseline detection** and **object detection**. Classified extracted signals through Deep Learning

## PUBLICATIONS

### Frequency and Time Domain EEG Analysis for Prognostication of Postanoxic Comatose Patients

Cinc2023 IEEE conference

Atlanta, US

Oct 2023

### CureNet: Improving Explainability of AI Diagnosis Using Custom Large Language Models

SmartGenCon 2023

Bangalore, IN

Feb 2024

## ADDITIONAL

**Technical Skills:** TensorFlow, PyTorch, SQL, Javascript, HTML/CSS, MATLAB, Python, Data Analysis, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Reinforcement Learning, Generative AI

**Languages:** Fluent in Telugu, English; Conversational Proficiency in Hindi

**Certifications & Training:** Deep Learning, TensorFlow, Computer Vision, Python (Udemy)

**Awards:** GE Healthcare Hackathon 2023: 1st Runner-Up | PhysioNet Challenge 2023: 4th Global Position in accuracy

**Community Outreach:** Led a **blockchain campaign** attracting 120 applicants, interviewed and selected 30 candidates, and facilitated **AI workshops** to build proficiency in AI fundamentals.

**Volunteering:** Organized and facilitated a healthcare AI workshop for 40+ students, managing all logistics and resources for an enriching learning experience.