

# NANDINI KUPPALA

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## EDUCATION

### Amrita Vishwa Vidyapeetham

Bachelor of Engineering in Artificial Intelligence **CGPA: 8.02**

Coimbatore, Tamil Nadu

2022 – 2026

## EXPERIENCE

### Infosys Springboard Internship 5.0 (AI Project Intern)

December 2024 - Present

- Led a team of five interns and built an AI system using NLP to automate ticket classification and responses.
- Integrated with helpdesk platforms to enhance efficiency and reduce resolution time.

### Research Experience: Machine Learning, Remote Sensing, Image Processing

October 2023 – Present

*Mentors: Dr. Ramesh Sivanpillai (University of Wyoming), Dr. Sajith Variyar (Amrita School of AI)*

- Worked on real-time machine learning projects using LANDSAT data to monitor rangeland vegetation.
- Contributed to a 30% increase in profitability for Wyoming farmers.

### Campus Ambassador (E-Cell IIT Bombay)

August 2024 – December 2024

- Organized events and competitions reaching over 200 participants, promoting entrepreneurship in college.

### Security and Software Testing Intern (Baavlibuch)

February 2024 – April 2024

- Automated testing procedures, reducing manual testing effort by 40% and accelerating test case execution by 25%.
- Debugged and fixed critical application bugs, enhancing stability and performance by 30%.
- Implemented and managed testing environments in Linux, significantly improving security and data protection.

## PROJECTS

### NurtureSync: A Health Care Companion

[Link](#)

- Developed a mobile and web app platform to manage chronic diseases like thyroid and diabetes.
- Features include personalized feedback, medical report analysis, health tracking, and a healthcare community.
- Tech stack:** Web – Streamlit, MongoDB, Firebase, Flask; **Mobile** – Flutter, Firebase, MongoDB.

### DeepFake Video Detection

[GitHub](#)

- Improved the model's accuracy by 15% in detecting DeepFake videos using a pipeline of MTCNN for face detection, ResNet for feature extraction, and LSTM for temporal analysis.
- Developed a Chrome extension for DeepFake image detection and working towards real-time video detection

## SKILLS

- Languages and Frameworks:** Python, Dart, JavaScript, C, Flutter, Flask, Streamlit.
- Tools and Databases:** Git, Docker, Selenium, Firebase, MySQL, MongoDB, Linux.
- AI and Development:** Generative AI, ML, DL, NLP, Computer Vision, Data Structures, Agile, Testing.
- Soft Skills:** Adaptability, Leadership, Communication, Problem-Solving, Innovation, Entrepreneurship.

## ACHIEVEMENTS

- Finalist at the Health Hackathon by Johns Hopkins University at VIT Bhopal, selected from 232 teams and over 1,300 participants for the project *NurtureSync*.

## PUBLICATIONS

- Published research titled "Mapping Vegetation Dynamics in Wyoming: A Multi-Temporal Analysis Using Landsat NDVI and Clustering" in the ASPRS International Technical Symposium 2024.
- Published research titled "Preterm Birth Prediction Using GraphSAGE and Electrohysterogram Data" in the IEEE Eleventh International Conference on Biosignals, Images, and Instrumentation (ICBSII).

## CERTIFICATIONS

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- **Artificial Intelligence Course Series (118 hr length)** : Infosys Springboard
- **Agile Scrum in Practice** : Infosys Springboard
- **Data Structures and Performance** : Coursera
- **Python Basic, Problem Solving Basic** : Hacker Rank