

## EDUCATION

<b>Vellore Institute of Technology, Andhra Pradesh</b>	2021 – 2025
<i>B.Tech in Computer Science and Engineering (Specialization in Artificial Intelligence and Machine Learning)</i>	CGPA: 9.1
<b>Narayana Educational Institutions</b>	2019 – 2021
<i>Intermediate - Maths, Physics, Chemistry (BIEAP)</i>	Percentage: 95.6
<b>Narayana Educational Institutions</b>	2018 – 2019
<i>Board of Secondary Education, Andhra Pradesh (BSEAP)</i>	CGPA: 10.0

## EXPERIENCE

**Gap Inc. | E-Commerce Intern** *Hyd, Jan 2025 - June 2025*

- Designed REST API backend for a dashboard supporting 50+ services, integrating New Relic, GCP, and PagerDuty for real-time monitoring.
- Spearheaded development and deployment of an AI-driven SARIMA pipeline using Azure ML, achieving 75% accuracy and reducing downtime by 20%.
- Optimized Kubernetes resource utilization by 70%, reducing cloud costs, and automated CI/CD pipelines using Docker and GitHub Actions.

**Technologies:** Spring Boot, Next.js, Microservices, Deep Learning, Kubernetes (Basic), Docker, Git, GitHub Actions, Google Cloud Platform (GCP), Azure Machine Learning

**Tools:** New Relic, PagerDuty, ServiceNow, Argo CD

## TECHNICAL SKILLS AND INTERESTS

**Programming Languages:** Java (Core Java, OOP, DSA), Python

**Libraries:** Machine Learning libraries (TensorFlow, Keras, PyTorch), Deep Learning Frameworks

**Technical Skills:** Machine Learning algorithms, Deep Learning Models, Natural Language Processing (NLP), Reinforcement Learning, Digital Image Processing

**DevOps Tools:** Docker, Kubernetes (basic), GitHub Actions, CI/CD, Agile Methodologies, Git (Version Control)

**Platforms:** New Relic, GitHub, Azure ML

**Cloud/Databases:** Relational Databases (SQL), Basic knowledge of cloud platforms like Amazon Web Services (AWS)

**Backend & Web Technologies:** Node.js, Flask, REST APIs, Microservices, JSON, Spring Boot, React, Next.js, API

**Coursework:** Data Structures and Algorithms, Operating Systems, Object-Oriented Programming(OOP), Database Management Systems, Computer Networks, Software Architecture, SDLC

**Areas of Interest:** Software Development Engineer, Data Scientist, Machine Learning Engineer, DevOps Engineer, Project Manager, Business Analyst, Digital Marketer

## ACADEMIC PROJECTS

•**Generative AI for Skin Cancer Detection** *2024*

*Advancing Medical Diagnostics with Generative Deep Learning*

- Dataset augmented from 10,000 images using GANs for enhanced training diversity.
- Implemented EfficientNetB0 with transfer learning for 10 epochs, achieving 97.83% validation accuracy.

•**Email Spam Classification** *2024*

*Transforming Email Security through Intelligent Text Analysis*

- Constructed a robust spam detection system using NLP and 10+ machine learning algorithms (Random Forest, Extra Trees, Multinomial Naive Bayes) with Python libraries including scikit-learn and NLTK, achieving 97.68% accuracy and 100% precision.

•**TeslaTrend: LSTM-Based Stock Price Predictor** *2023*

*Harnessing Deep Learning for Financial Forecasting and Real-Time Insight*

- Built and trained an LSTM model with over 80% accuracy to predict Tesla stock prices, deploying real-time predictions via Flask API and React frontend.

•Language Translation Using LSTM and RNN

2022

*Bridging Language Barriers with Neural Sequence Modeling*

- Created a language translation model using LSTM, RNN, and Attention Mechanism with Python, TensorFlow, Keras, incorporating advanced text preprocessing, trained on over 10000 English–French pairs achieving 90% accuracy.

•VitalGuard: Real-Time Health Monitoring System

2021

*Empowering Preventive Care through Embedded IoT Intelligence*

- Engineered an embedded health monitoring system using Arduino (C-based programming), MAX30102 sensors, and GSM modules, demonstrating real-time data acquisition, debugging, and GSM-based communication.
- Conducted testing on 30+ participants via GSM and SMTP alerts, achieving 90% user satisfaction and validating the IoT device’s reliability.

CERTIFICATIONS

AWS Certified Solutions Architect - Associate	<a href="#">[Link]</a>
Oracle Java Foundation Associate	<a href="#">[Link]</a>
ITT Summer Internship AI ML	<a href="#">[Link]</a>

ACHIEVEMENTS

**Patent:** System and Method for Triggering Alerts to Assist Users by Monitoring and Detecting Emergency Events  
**Application Number:** 202441052913    **Date Granted:** 26/07/2024  
**Tools & technologies used:** Raspberry Pi 4, camera module, TensorFlow/PyTorch, Convolutional Neural Network (CNN), YOLO versions, Python, OpenCV, GSM module, Telegram Integration, SD card, micro-USB power supply

- Patented AI system using CNN and YOLO v5 with 80%+ accuracy to detect aggressive dog behavior, integrating GSM and Telegram for real-time alerts; planned sensor additions and transfer learning to enhance performance.

POSITIONS OF RESPONSIBILITY

- Research Presentation:** Presented a detailed research paper titled "Skin Cancer Detection Using Deep Learning" at the 2nd International Conference on AI & ML hosted by Microsoft, utilizing 10,000+ images to support advancements in dermatological diagnostics.
- Leadership Roles:** Led 10+ deep learning workshops engaging 500+ students and held leadership roles across ML, Uddeshya, and Cultural Clubs—driving events, outreach, and increasing overall membership by 40%.