

Pisari Ayesha

Aspiring SDE | AI/ML Enthusiast

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LinkedIn Profile

GitHub Profile

EDUCATION

Vellore Institute of Technology, Andhra Pradesh

B.Tech in Computer Science and Engineering (Specialization in Artificial Intelligence and Machine Learning)

2021 – 2025

CGPA: 9.1

Narayana Educational Institutions

Intermediate - Maths, Physics, Chemistry (BIEAP)

2019 – 2021

Percentage: 95.6

Narayana Educational Institutions

Board of Secondary Education, Andhra Pradesh (BSEAP)

2018 – 2019

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

Harnessing Deep Learning for Financial Forecasting and Real-Time Insight

2023

- 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

[\[Link\]](#)

Oracle Java Foundation Associate

[\[Link\]](#)

ITT Summer Internship AI ML

[\[Link\]](#)

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%.