

Vecha Samatha

Undergraduate

🏠 Yetigairampeta, Andhra Pradesh

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ACADEMIC PROFILE

- **Shri Vishnu Engineering College for Women, Bhimavaram, India** 2022 – 2026
Bachelor of Technology in Artificial Intelligence and Machine Learning CGPA: 9.4 / 10.0
- **Tirumala Junior College for Girls, Rajahmundry** 2020 – 2022
Intermediate (MPC) Percentage: 96.7%
- **Tirumala English Medium High School, Rajahmundry** 2019 – 2020
Secondary School Certificate (SSC) Percentage: 100%

PROJECTS

- **Farmer Buddy – Smart Assistant for Crop & Fertilizer Recommendations**
 - **Problem Addressed:** Many farmers face difficulties selecting optimal crops and fertilizers based on soil and climate, reducing yield.
 - **Contribution:** Integrated two machine learning models (crop and fertilizer recommendation) into a unified web platform.
 - **Technologies:** Python (Flask), React.js, Firebase, Scikit-learn, Random Forest, Gradient Boosting, Pandas
- **To-Do List - Task Management Web Application**
 - **Goal:** Developed to gain practical experience in full-stack web development and cloud deployment workflows.
 - **Contribution:** Implemented a responsive to-do list app with task creation, deletion, real-time data sync via Firebase, and deployed using Render and Vercel. Added features like task progress analytics, reminders, and search/filter.
 - **Technologies:** React.js, Firebase, NodeJs, ExpressJs, Render, Vercel, HTML, CSS
- **Image Captioning – Generating Captions for Images using Deep Learning**
 - **Problem Addressed:** Difficulty in automatically interpreting and describing visual content in images.
 - **Contribution:** Built a deep learning model combining CNN for image feature extraction and LSTM for generating natural language captions. Trained on the Flickr8k dataset and evaluated with BLEU scores.
 - **Technologies:** Python, TensorFlow/Keras, CNN, LSTM, Flickr8k Dataset
 - **Key Features:** End-to-end image-to-text pipeline, pre-trained CNN encoder, sequence decoder with attention, BLEU-based evaluation.

INTERNSHIPS

- **Data Science – ALTAIR**
Worked with real-world datasets, performing data visualization and predictive analysis.
Duration: Apr 2024 – Jun 2024

CERTIFICATES

- **Java Programming:** NPTEL, Oracle Academy
- **Smart Coder (Silver):** Smart Interviews
- **Database Foundations:** Oracle Academy

SKILLS

- **Technical Skills**

- **Languages:** Python, Java (Intermediate)
- **Full Stack:** HTML, CSS, ReactJS
- **Data Science Analysis:** Pandas, Scikit-learn, Matplotlib, Standard Machine Learning Algorithms.
- **Tools & Databases:** VS Code, Git & MySQL, Firebase
- **Data Visualisation:** Tableau
- **Core Areas:** Data Structures & Algorithms, Machine Learning

- **Personal Skills**

- Self-Motivated, Team-Oriented, Adaptable, Time Management