GADDE VARSHITHA

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PROFESSIONAL SUMMARY

Computer Science graduate with a strong foundation in Python programming, machine learning, full-stack development, and database management. Hands-on experience in developing machine learning models, building RESTful APIs using Flask, and creating web applications using HTML, CSS, JavaScript, PHP, and MySQL. Familiar with data preprocessing, exploratory data analysis, model training, evaluation, and explainable AI concepts. Strong problem-solving, analytical thinking, and collaboration skills with an interest in developing scalable, data-driven software solutions.

TECHNICAL SKILLS

Programming Languages: Python, Java (Basics)
Web Technologies: HTML5, CSS3, JavaScript, PHP
Machine Learning: Machine Learning Algorithms, Regression, Random Forest, XGBoost, Scikit-learn
Data Analysis: Data Preprocessing, Exploratory Data Analysis (EDA), Data Interpretation, Model Evaluation
Databases: MySQL, Database Management Systems
Frameworks & Libraries: Flask, Scikit-learn
Developer Tools: Git, Visual Studio Code, Jupyter Notebook
Core Competencies: Data Structures, Operating Systems, Computer Networks, Problem-Solving, Logical Thinking, Team Collaboration

EDUCATION

Narayana Engineering College, Gudur **2022 – 2026**
Bachelor of Technology **CGPA: 9.5/10.0**
Relevant Coursework: Data Structures, Operating Systems, Computer Networks, Database Management Systems.

PROFESSIONAL EXPERIENCE

Machine Learning Intern | Youngmind Technologies **May 2025 – June 2025**

- Developed and implemented machine learning pipelines using Python and Scikit-learn for data-driven applications.
- Performed data preprocessing, model training, and evaluation to support machine learning workflows.
- Automated model training and evaluation processes to improve workflow consistency across client projects.

Python Developer Intern | Sri Vensy Technologies **May 2024 – May 2025**

- Developed RESTful APIs using Python and Flask to enable communication between frontend and backend systems.
- Implemented API endpoints and supported system integration for enterprise client applications.
- Focused on structured API development, data exchange, and reliable backend functionality.

Full Stack Development Intern | Internshala **April 2024 – June 2024**

- Developed and maintained full-stack web applications using HTML, CSS, JavaScript, PHP, and MySQL.
- Worked on frontend and backend development, including CRUD operations, authentication, and responsive UI design.
- Integrated database operations with application functionality to support dynamic web applications.

PROJECTS

Hospital Length of Stay Prediction

- Developed a machine learning model to predict patient hospital stay duration using healthcare datasets.
- Performed data preprocessing and exploratory data analysis to prepare healthcare data for model development.
- Applied regression algorithms, including Random Forest and XGBoost, for predictive modelling and evaluation.

Explainable AI for Crop Recommendation, Yield Forecasting & Rainfall Prediction

- Designed an AI-powered system to recommend suitable crops and predict agricultural yield and rainfall.
- Utilized environmental and socio-economic data to support agricultural prediction and recommendation.
- Incorporated interpretable AI concepts to improve model transparency and explainability.

CERTIFICATIONS

- Cloud Computing – NPTEL, IIT Madras
- Java Programming (500-Level Problems) – CodeChef by Unacademy
- Python Programming – CodeTantra
- Career Essentials in Generative AI – Microsoft & LinkedIn Learning (2025)

ACHIEVEMENTS

- **1st Prize:** Technical Paper Presentation at Prayag 2K25, Audishankara Engineering College.
- **1st Prize:** Paper Presentation at Visvotsav 2K25, VITS College.
- **2nd Prize:** Paper Presentation at Nipuna, NECG National Student Technical Symposium.