VAMSIKRISHNA SIRIMALLA

Email: vamsikrishnasirimalla@gmail.com

LinkedIn: https://www.linkedin.com/in/vamsikrishna-sirimalla-57554b228/

GitHub: https://github.com/vamsi-sys   Mobile: +91 7207184553

Portfolio: https://vamsikrishnasirimalla-portfolio.netlify.app/

Career Objective

Aspiring AI/ML Engineer & Python Developer with hands-on experience in machine learning projects and internships. Skilled in building predictive models, data preprocessing, and implementing deep learning algorithms using Python. Eager to contribute to real-world software and data-driven innovation while continuously learning new technologies.

Academic Projects

- Facial Expression Recognition System
  - Built a real-time emotion detection model using CNN, YOLOv2 & RNN, trained on FER-2013 dataset, achieving accuracy 88% time saved, data size handled, speed achieved.
  - Designed for live video emotion recognition with optimized frame processing using OpenCV & TensorFlow.
- Cyber Threat Detection using ANN
  - Developed an AI-based intrusion detection model combining CNN & LSTM to detect threats in NSL-KDD and CICIDS2017 datasets.
  - Reduced false positives and improved detection precision using deep learning-based hybrid architecture.
- Spotify Song Suggestions
  - Built a music recommendation system using audio feature extraction and similarity algorithms.
- House Price Prediction
  - Designed a regression model using Scikit-learn for price estimation based on multiple input features.
  - Performed **data cleaning, feature scaling, and model tuning**, achieving high prediction accuracy.

Internships Experience

Machine Learning Intern | Bharat Intern   Nov 2023 – Dec 2023
  - Built a House Price Prediction model using Python, Pandas, NumPy, and Scikit-learn.
  - Performed data preprocessing, feature selection, and model tuning for better prediction accuracy.
  - Visualized performance metrics using Matplotlib and optimized model parameters to improve results.

AI/ML Intern | YBI Foundation   Sep 2023 – Dec 2023
  - Developed and trained Machine Learning and Deep Learning models using TensorFlow and Keras.
  - Implemented classification and regression algorithms with real-world datasets.
  - Applied feature engineering and hyperparameter tuning to enhance model performance.

AI Intern | Corizo Edutech Pvt. Ltd.   May 2023 – Jun 2023
  - Gained hands-on experience in AI/ML fundamentals and data analysis using Python.
  - Worked on small-scale projects involving data preprocessing, visualization, and model evaluation.
  - Improved understanding of ML pipeline and model deployment basics.

Education

BTech (AI&ML), JNTU University, Hyderabad —   Nov 2021-Jul 2025|CGPA: 6.9

Key Coursework: Machine Learning, Deep Learning, Data Science, Python Programming

Intermediate (MPC), Narayana Junior College, Hyderabad—   Mar 2019 – Mar 2021 | Percentage: 90.2%

Secondary School (Class X), — Rahul Vignan School, Hyderabad   Completed 2019 | GPA: 9.3

Skills

Programming: Python, SQL, Java (Basics)

Machine Learning: Linear Regression, Decision Trees, Random Forest, Deep Learning, TensorFlow, PyTorch

Libraries: NumPy, Pandas, Matplotlib, Scikit-learn

Tools: Jupyter Notebook, GitHub, Google Colab

Soft Skills: Problem Solving, Communication, Collaboration, Analytical Thinking, Time Management, Adaptability.

CERTIFICATES

- Python 101 for Data Science — IBM Cognitive Class *(Issued Oct 2025)*
- Machine Learning with Python — FreeCodeCamp *(Issued Jun 2024)*
- AI/ML Internship Certificates
  - Bharat Intern *(Issued Nov 2023)*
  - Corizo *(Issued May 2023)*
  - YBI Foundation *(Issued Dec 2023)*