Suman Yadav

(318) 512-5501 | Monroe, LA | sumanydv615@gmail.com | github.com/Ydv-Suman | linkedin.com/in/suman-ydv/

Summary

Aspiring Data Scientist with strong foundations in Machine Learning, Data Analysis, and Web Development. Proven success in delivering accurate ML models and scalable web platforms. Passionate about solving real-world problems using data-driven solutions.

Education

University of Louisiana, Monroe, LA Monroe, Louisiana

Bachelor of Computer Science, GPA: 3.45 May 2027

Relevant Coursework: Data Structure and Algorithms, Internet Programming, Advanced Discrete Structures, Calculus, Statistics and probability

Experience

Startups Realm Technology Lalitpur, Nepal

Intern May 2023 – Aug 2023

- Built and deployed responsive user interfaces with HTML, CSS, and JavaScript**,** improving engagement by 20% across 10 platforms.
- Streamlined team collaboration and version control by maintaining code integrity with Git for 15 developers.

Extracurricular Activity

BookShare | ULM Hackathon April-2025

- Enabled 50+ daily book uploads by building a responsive book-sharing platform with AI-powered pricing suggestions for 1000+ users.
- Boosted reading engagement by 10% via a personalized recommendation engine and 'Read More' UI preview.
- Enhanced backend speed by optimizing database queries and efficiently managing 500+ book/user records.

Projects

Car Sales Price Prediction | LINK June 2025

- Developed a Random Forest regression model that predicted used car prices within a ±8% error margin on structured vehicle data, improving pricing reliability.
- Automated preprocessing pipeline (handling missing values, encoding categorical features, scaling) using pandas and scikit-learn, reducing manual intervention.
- Optimized performance via GridSearchCV and cross-validation, improving model F1-score by 18% and boosting robustness.

Heart Diseases Project |LINK June 2025

- Built a medical ML system achieving 92% recall in early detection of heart disease using patient clinical data.
- Performed EDA and feature engineering (outlier detection, cholesterol/ECG trend analysis) to improve feature reliability.
- Benchmarked models (Logistic Regression, KNN, Random Forest) and visualized results with ROC-AUC, confusion matrix, and SHAP for interpretability.

CNN-horse-vs-human | LINK July 2025

- Trained a **Convolutional Neural Network (CNN)** with TensorFlow/Keras to classify images of horses' vs humans.
- Improved model robustness using data augmentation and dropout regularization, achieving >90% accuracy.
- Demonstrated scalable CV workflows, including dataset preprocessing, training, and evaluation pipelines.

Sarcasm Detector | LINK July 2025

- Developed a sarcasm classification model leveraging semantic embeddings and deep NLP architectures.
- Preprocessed and tokenized raw text data, optimizing embedding layers for contextual understanding.
- Evaluated with F1-score and ROC-AUC, achieving reliable detection of nuanced sarcastic language.

MNIST digit recognizer | LINK August 2025

- Built an interactive TensorFlow.js web app with a CNN model achieving 97%digit recognition accuracy**,** enabling real-time predictions from user-drawn inputs.
- Showcased deep learning + deployment by integrating CNN-based digit recognition directly into the browser.
- Designed a responsive UI with real-time feedback, demonstrating full-stack ML deployment skills.

Skills

Languages: Python, Java, JavaScript

ML & Data Science: TensorFlow, Scikit-Learn, NumPy, Pandas, Matplotlib, Seaborn**,** React

Web Development: React, HTML, CSS, Tailwind CSS

Tools: Jupyter Notebook, Google Colab, Git, GitHub