

Thatipamula Sairam

Hyderabad, Telangana

📞 9553542050

✉️ sairamthatipamula69@gmail.com

🌐 www.linkedin.com/in/sairam018

🌐 Portfolio

Internship

Online Training

- Proficient in Python programming language with specialized training from Programming with *Patashala*.
- Completed comprehensive courses covering core concepts, data structures, and algorithms with *Coursera*.
- Skilled in developing efficient and scalable code for diverse applications, demonstrating a solid foundation in Python programming through hands-on projects and assignments.

Projects

LIBRARY MANAGEMENT SYSTEM

Apr 2022

- Simplify library tasks with our Python-based system for efficient cataloging and user management.
- Enhance library operations using our streamlined Python solution for seamless resource tracking.
- Optimise your library experience with our user-friendly Python Management System for easy cataloging and lending.

GOLD PRICE PREDICTION

Nov 2023

- Developed a machine learning model using Python to accurately predict gold prices, employing techniques such as regression analysis and time series forecasting to analyse historical data and identify trends.
- Technologies and Libraries Leveraged powerful Python libraries including pandas, scikit-learn, and TensorFlow to preprocess data, train models, and evaluate performance, ensuring high accuracy and efficiency in predictive analytics.

FEATURE DETECTION USING HARRIS AND FAST OPERATORS FOR REAL-TIME VIDEO ANALYSIS

Nov 2024

- Implemented and analyzed Harris and FAST feature detection algorithms for real-time video analysis.
- Optimized accuracy and computational efficiency for object tracking and image recognition.
- Compared performance trade-offs between precision and speed in feature detection.
- Evaluated real-time applicability for motion analysis and scene understanding.

DEEP LEARNING ASSIGNMENTS

Jan 2025

- The platforms, programming languages, and libraries utilized. For instance: "Utilized Google Colab for cloud-based development, employing Python, TensorFlow, and Keras for deep learning model implementation."
- Designed and trained convolutional neural networks (CNNs) for image classification tasks, achieving an accuracy improvement of 15% over baseline models
- The model's predictions led to a 10% increase in sales forecasting accuracy, directly contributing to more informed business decisions

RAPID COLORIMETRIC AND AI-BASED METHODS FOR DETERMINING MICROBIAL QUALITY OF MILK PRODUCTS

Mar 2025

- Developed an AI-driven system for assessing microbial quality in milk products using rapid colorimetric analysis and machine learning models.
- Implemented deep learning techniques to classify contamination levels with high accuracy, enabling real-time detection.
- Contributed to end-to-end pipeline including data collection, model training, UI integration, and result validation for quality assurance.

Certifications

- Operating Systems Apr 2023
- Computer Architecture Feb 2023
- The Bits and Bytes of computer networking Sep 2023
- Database Management System Oct 2023
- Game Design and Development Mar 2024
- Natural Language Processing with Attention Models Apr 2024
- Robotic Process Automation Honeywell Feb 2025

Technical Skills

- **Programming Languages:** Python, Java, Swift
- **Technologies/Frameworks:** HTML, CSS, JavaScript, WordPress, SQL, iOS Developer (Beginner)
- **Major:** Machine Learning, NLP(Natural language processing), DeepLearning
- **Soft Skills:** Communication, Teamwork, Problem-solving, Critical thinking and Adaptability

Education

Lovely Professional University-Punjab

2021 – 2025

B-Tech / Computer Science and Engineering : CGPA: 6.6

Jalandhar, Punjab

SR Jr. College-Nizamabad

2019 – 2021

12th Standard — Percentage : 74%

Nizamabad , Telangana

Narayana School-Hyderabad

2018 – 2019

10th Standard — CGPA : 9.3

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