THATIPAMULA SAIRAM
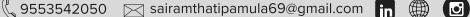
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SOFTWARE DEVELOPER

📍 Hyderabad, Telangana

SUMMARY

A 2025 Bachelor of Technology graduate in Computer Science and Engineering from Lovely Professional University, specializing in Machine Learning and Artificial Intelligence. Passionate about developing intelligent systems to solve real-world problems through innovative, data-driven approaches. Proficient in Python, Java, and Swift, with practical experience in deep learning, NLP, and data analysis. Eager to apply this comprehensive skill set to build and deploy impactful computational models.

TECHNICAL SKILLS

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

PROJECTS

LIBRARY MANAGEMENT SYSTEM

- 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

- 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

- 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

- 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

AI-POWERED RESUME SCREENING SYSTEM

- Developed an AI-powered resume screening system using NLP and machine learning, reducing manual screening time by 70%.
- Built a user-friendly dashboard for HR professionals to analyze candidate rankings and streamline hiring decisions.
- Integrated the solution with existing ATS platforms to enhance recruitment workflows.

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

- 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.

saramS AI - A Responsive & Themable AI Chat Web Application

- Developed a dynamic single-page application (SPA) using React to provide a real-time, conversational interface with a generative AI.
- Engineered a fully responsive, "liquid glass" user interface with Tailwind CSS, featuring fluid animations and a robust, user-selectable theme engine with 8+ distinct visual styles.
- Integrated Google Firebase for secure user authentication and utilized Firestore for real-time, persistent storage of chat histories, ensuring a seamless user experience across devices and sessions.

ONLINE TRAININGS

• Proficient in Python programming language with specialized training from **Programming *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.

CERTIFICATES

• 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**

EDUCATION

Lovely Professional University	**Jalandhar, Punjab**
B-Tech / Computer Science and Engineering : CGPA: **6.73 (Graduated)**	**2021 – 2025**
SR Jr. Colleges	**Nizamabad , Telangana**
12th Standard — Percentage : 72%	**2019 – 2021**
Narayana Schools	**Hyderabad, Telangana**
10th Standard — CGPA : 9.3	**2018 – 2019**