

# THATIPAMULA SAIRAM

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## SOFTWARE DEVELOPER

📍 Hyderabad, Telangana

### SUMMARY

Hey there! I'm Thatipamula Sairam, a Bachelor of Technology (B.Tech) Graduate in Computer Science and Engineering from Lovely Professional University, Class of 2025, with a specialization in Machine Learning and Artificial Intelligence. My academic journey has been driven by a strong interest in developing intelligent systems that address real-world challenges through the integration of data-driven methodologies, computational models, and innovative technologies. Over the past few years, I've built a strong foundation in Python, Java, and Swift, and worked hands-on with deep learning, NLP, and data analysis.

### TECHNICAL SKILLS

**Programming Languages:** Python, Java, Swift

**Technologies/Frameworks:** HTML, CSS, JavaScript, WordPress, SQL, iOS Development (Beginner), UI/UX (Beginner)

**Major:** Machine Learning, NLP(Natural language processing), Computer Vision, DeepLearning

**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.

*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	<b>Apr 2023</b>
• Computer Architecture	<b>Feb 2023</b>
• The Bits and Bytes of computer networking	<b>Sep 2023</b>
• Database Management System	<b>Oct 2023</b>
• Game Design and Development	<b>Mar 2024</b>
• Natural Language Processing with Attention Models	<b>Apr 2024</b>
• Robotic Process Automation Honeywell	<b>Feb 2025</b>

*EDUCATION*

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