

# Laxmi Pranitha Sareddy

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## EDUCATION

UNIVERSITY OF SOUTH FLORIDA | GPA - 3.85/4.0

Tampa, FL

Master of Science in Computer Science

Aug 2023-May 2025

**Coursework:** Introduction to Theory of Algorithms, Principles of Computer Architecture, Introduction to AI, Security & Privacy in ML, Database Management Systems, Operating Systems, Smart and Connected Health, Human-Computer Interaction

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY | GPA- 3.2/4.0

Hyderabad, India

Bachelor of Technology in Computer Science and Engineering

Jul 2018-Jul 2022

**Coursework:** Operating Systems, Java, Data Structures, C, C++, Database Management Systems, Machine Learning, Computer Networks, Web Technologies, Design and Analysis of Algorithms, Data Mining, Cryptography and Network Security, Scripting Languages, Fundamentals of IoT

## WORK EXPERIENCE

IT INFRASTRUCTURE SYSTEM ADMINISTRATOR-ASSOCIATE

Hyderabad, India

Hitachi Vantara

Aug 2022-Jul 2023

- Resolved 400+ Service Desk incidents & Service Requests, prioritizing critical issues at risk of breaching SLAs, leveraging expertise in O365 and Azure and identity management tools like RBAC, Okta, SSO, MFA and email management including PST and OST files for timely solutions.
- Spearheaded and managed Inactive reports clean-up projects, improving data accuracy and operational efficiency by 20%, while managing on-premises AD for seamless user provisioning, access control, and system integrity.
- Administered Security and Distribution groups, optimizing access control & fostering seamless communication for 1000+ users in diverse departments.
- Managed 50+ backup and recovery data incidents, ensuring data integrity and security for vital systems, achieving a remarkable 99% success rate in data recovery and minimizing downtime and engineered collaborative wizards using Power Apps.
- Led 200+ mail purging and compliance search initiatives using PowerShell and SMTP, ensuring regulatory compliance and optimizing mail storage, while conducting compliance searches for 30+ PST files on CITRIX machines during migrations from on-prem to cloud environments.

IT INFRASTRUCTURE SYSTEM ADMINISTRATOR-INTERN

Hyderabad, India

Hitachi Vantara

Jan 2022-Jul 2022

- Developed advanced technical competencies by participating in comprehensive training sessions focused on Microsoft cloud Exchange, Azure, and PowerShell.
- Executed a thorough audit project specifically targeting Azure and Office 365 permissions, carefully assessing access rights for a substantial user base exceeding 500 individuals.
- Accomplished a remarkable 20% improvement in access control efficiency and a strict adherence to stringent security standards following the comprehensive permissions audit endeavor.

## ACADEMIC PROJECTS

DOCINSIGHT: ILLUMINATING HEALTHCARE SOLUTIONS, USF

Jan 2024-Apr 2024

- Pioneered the development of DocInsight, a cutting-edge healthcare platform that collected and visualized data on over 500 doctors, React.js and SQL for data processing and visualization.
- Engineered a robust rating system that analyzed professional qualifications and patient feedback, resulting in an average user rating increase of 30% and a 20% improvement in doctor-patient matching accuracy.
- Led a team of four developers and data analysts in the development of DocInsight, ensuring collaboration, coordination, and timely delivery, resulting in a 30% reduction in development time and successful deployment of a healthcare platform.

EVOLUTIONARY ALGORITHM BASED FEATURE SELECTION & FUSION FOR FACIAL EXPRESSION RECOGNITION, MGIT

Jan 2022-Jun 2022

- Curated a varied dataset of emotive human faces representing diverse demographics, ensuring inclusivity. Conducted pre-processing to standardize image sizes and reduce noise, leading to a notable 90% decrease in inconsistencies.
- Crafted a facial detection system with HOG, extracting detailed 68 landmarks and texture features using Local Binary Patterns for precise analysis and deployed a genetic programming algorithm, achieving a remarkable 94.28% accuracy.
- Maximized the effectiveness of fitness functions by refining parameters, and developed an optimized fusion strategy for combining geometric and appearance features, enhancing the robustness and accuracy of facial expression recognition models.

MEDICAL IMAGE ENHANCEMENT USING GENETIC ALGORITHM, MGIT

Jan 2021-May 2022

- Spearheaded the development of Genetic Algorithm-based project, focusing on improving MRI quality for better diagnostic accuracy with 87% reduction in image noise and 93% increase in image sharpness enhancing diagnostic accuracy.
- Implemented Evolutionary Algorithm, histogram sub-division, and modified Probability Density Function (PDF), guided by a multi-objective fitness function to enhance image visions which led to 92% improvement in contrast levels.
- Applied inputted medical images and generated histograms to refine image enhancement algorithms, ultimately producing new enhanced images with improved clarity and diagnostic utility.

## SKILLS

**Programming Skills:** C, C++, Java, Python, SQL, PHP

**Web Technologies:** HTML, CSS

**Cloud Technologies:** Microsoft Exchange, Microsoft Azure, Active Directory, M365, Outlook, Teams

## CERTIFICATIONS

- Python for Everybody.
- AWS Fundamentals: Going cloud naive.
- Microsoft MS-900 Certification: M365 Fundamentals.