

# Janani Mukkoti

<https://github.com/Janani-mukkoti>

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## EDUCATION

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- **Clemson University** Clemson, SC  
*Master of Science in Computer and Information Sciences* *Jan 2024 – present*
- **Vel Tech Institute of Science and Technology** Chennai, India  
*Bachelor of Technology in Computer Science and Engineering* *Aug 2019 – July 2023*

## EXPERIENCE

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- **Teaching Assistant-Computer Organization** Clemson University  
*Clemson University* *Aug 2024 - present*
  - Assist students in lab sessions with C programming tasks for the Computer Organization course.
  - Troubleshoot coding issues and explain concepts like processor operations and memory management.
  - Review and debug student code to ensure accurate implementation and understanding of course objectives.
- **Web Development Intern** Chennai  
*Corizo* *Dec 2022 - Mar 2023*
  - Designed and implemented SQL-based database schemas, ensuring data normalization and integrity for efficient storage and retrieval.
  - Developed and integrated complex SQL queries, stored procedures, and triggers to support dynamic web application functionality.
  - Optimized database performance through query tuning and collaborated with the team to ensure seamless data interactions.
- **Data Analyst Intern** Remote  
*Quantium* *Jul 2022 - Aug 2022*
  - Assisted teams in analyzing and visualizing data to support business decision-making.
  - Validated and cleaned large datasets, ensuring accuracy and consistency for predictive modeling.
  - Utilized Python and data visualization tools like Tableau to present insights on product performance and customer segmentation.

## PROJECTS

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- **Detecting Working Patterns from Online Workers** Conducted predictive modeling to analyze invisible labor in online workspaces using the Amazon MTurk dataset. Applied advanced machine learning techniques, including Random Forest Regression, achieving an  $R^2$  of 0.847. Performed feature engineering and data analysis to identify key predictors like task duration and compensation, delivering actionable insights to enhance workforce efficiency and task scheduling.
- **Movie Recommendation System** Developed a personalized movie recommendation platform with a 95% precision rate using Collaborative Filtering. Designed a responsive UI integrated with a Flask backend for real-time interactions and optimized performance for rapid query responses. Enhanced user experience with dynamic autocomplete and scalable features.
- **Identifying Missing Persons Using AI** Created an AI-driven facial recognition system to assist in finding missing persons. The system utilized Local Binary Patterns Histogram (LBPH) and Fisherface methods to enhance accuracy and reliability, improving the effectiveness of computerized identification.
- **Bone Fracture Detection Using Image Processing** Developed an automated system for detecting bone fractures in X-ray images. Leveraging MATLAB's advanced image processing techniques, the system significantly improved the speed and accuracy of diagnostic processes.

## CERTIFICATIONS

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- **Introduction to Networks(CCNAv7)** CISCO
- **Web Development** CORIZO
- **AWS Academy Cloud Foundations**

## PROGRAMMING SKILLS

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- **Languages:** Python, SQL, HTML & CSS, JavaScript
- **Technologies:** MySQL, Numpy, Pandas, Figma, Jupyter Notebook, VS code, MS office, Git, Github