

# Bhavani Shankar Sasank Mukkamala

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## SUMMARY

Passionate problem-solver with a knack for turning ideas into reality. Blends AI, machine learning, and full-stack development to craft impactful solutions. Eager to grow and innovate in a collaborative environment.

## EDUCATION

### California State University, Los Angeles

Master of Science in Computer Science (GPA: 3.94 / 4.00)

May 2025

Los Angeles, CA

### Gandhi Institute of Technology and Management, Hyderabad, India

Bachelor of Technology in Computer Science and Engineering (GPA: 3.97 / 4.00)

June 2023

Hyderabad, India

## WORK EXPERIENCE

### California State University, Los Angeles, CA

Oct 2023 – Present

Graduate Student Assistant (Assistant Lab Consultant)

- Enhanced lab efficiency by reducing downtime 30% through swift resolution of 100+ hardware, software, and network issues.
- Improved user satisfaction (95% rating) by managing 50+ monthly ServiceNow tickets, providing timely and effective solutions.
- Supported IT services for 500+ users, troubleshooting issues related to campus applications like Zoom, Teams, and Canvas.

### Phoenix Global, Hyderabad, India

Apr 2022 – July 2022

Machine Learning Engineer Intern

- Deployed a real-time Twitter sentiment analysis system, enhancing data processing by 30% with Python, Tweepy, and Twitter API integration.
- Boosted sentiment classification accuracy by 25%, applying advanced NLP techniques and Scikit-Learn for improved business intelligence.
- Optimized data workflows, cutting model training time by 15%, delivering faster results for real-time sentiment analysis.

### Defence Research and Development Organisation, Hyderabad, India

May 2021 – Aug 2021

Software Developer Intern

- Reduced data conversion time by 60% by designing a Python-based middleware, optimizing research workflows for 50+ users.
- Developed a user-friendly GUI with Tkinter, cutting manual data validation effort by 60% and streamlining data analysis.
- Conducted rigorous testing, achieving 100% accuracy in data conversion and handling datasets with over 1 million records.

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C++, JavaScript, C#, Dart

**Web Technologies:** ReactJS, NextJS, AngularJS, HTML, CSS, Bootstrap, Express.js

**Databases:** MongoDB, MySQL, PostgreSQL, Oracle SQL

**Machine Learning Tools:** TensorFlow, Keras, Scikit-Learn, Pandas, NumPy, OpenCV

**Cloud Technologies:** AWS (EC2, S3), Google Cloud Platform, Docker

**Tools:** Git, Jira, ServiceNow, LaTeX

## PROJECTS

### AI Medical Chatbot | LangChain, Hugging Face, Streamlit, FAISS | github.com

Nov 2024

- Developed an AI chatbot with LangChain and Hugging Face, achieving 90% accuracy in contextually relevant responses.
- Optimized PDF document processing, creating vector embeddings that reduced response time by 50%.
- Deployed using Streamlit, providing a user-friendly interface with persistent chat history.

### Facial Emotion Recognition System | Python, TensorFlow, OpenCV, Keras | github.com

Jun 2024

- Built a real-time emotion detection system, using CNN and TensorFlow, achieving 85% accuracy on the FER-2013 dataset.
- Integrated OpenCV for live processing, enabling real-time emotion detection at 15 frames per second.

### Cryptocurrency Price Predictor | Python, Flask, TensorFlow/Keras, yfinance | github.com

Mar 2024

- Developed a cryptocurrency price predictor with LSTM neural networks, achieving 80% accuracy on historical data.
- Streamlined data preprocessing (10,000+ data points) using Scikit-learn's MinMaxScaler, boosting model training efficiency by 25%.

## CERTIFICATIONS

• **Programming in Python**, META, 2024

• **Full Stack**, META, 2024

• **Machine Learning**, University of Washington, 2024

• **Neural Networks and Deep Learning**, DeepLearning.AI, 2022

• **MongoDB Node.js Developer Path**, MongoDB, 2023

• **Object Oriented Programming in Java**, UC San Diego, 2024