

# Suhaas Teja Vijjagiri

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## EDUCATION

### San Jose State University

MS, Computer Engineering, Data Science Specialization

San Jose, CA

Expected December 2025

### Anurag University

BTech, Electronics and Communications Engineering

Hyderabad, India

July 2017 – July 2021

## TECHNICAL SKILLS

**Frontend:** React.js, Angular, Next.js, JavaScript, TypeScript, HTML5, CSS3, Material UI, D3.js, Google Maps API  
**AI/ML:** Python, LangChain, LlamaIndex, OpenAI GPT-4, RAG, ChromaDB, Scikit-learn, Pandas, NLP, A/B Testing  
**MLOps:** ML Pipeline Design, Model Deployment, Performance Optimization, Metrics Tracking, Feature Engineering  
**Design & Tools:** Figma, Git, REST APIs, Postman, Jira, DevTools, Jest, System Architecture Design  
**Cloud & DevOps:** Docker, Kubernetes, AWS, GCP, Heroku, Supabase, CI/CD, Jenkins  
**Database:** MySQL, PostgreSQL, Vector Databases

## EXPERIENCE

### GenAI and Data Analysis Research Assistant

January 2025 – Present

SJSU King Library

San Jose, CA

- Engineered large-scale web scraper using Scrapy and Playwright to extract AI research data from 13,900+ URLs, achieving 97% time reduction (15 min to 27 sec/article) with 90% relevancy
- Developed rate-limited crawler system with robots.txt validation for 139 universities, automating multi-format data extraction (Markdown, JSON, CSV) for 100+ URLs per institution
- Implemented automated logging and validation pipeline with error tracking mechanisms, processing 13,900+ academic URLs into structured datasets for NLP/GenAI analysis

### AI Chatbot Research Student Assistant

March 2024 – Present

SJSU King Library

San Jose, CA

- Engineered batch testing framework to evaluate RAG architectures, analyzing 100+ test cases across LangChain and LlamaIndex implementations, resulting in 45% improvement in response accuracy and framework optimization
- Developed streamlined data pipeline processing 2000+ library resource pages with 6-category classification system, handling 200+ monthly queries to enhance chatbot knowledge base and response relevancy
- Designed and implemented responsive Streamlit interface with suggestion chips and feedback systems, integrating insights from UX workshops to optimize data collection and user interaction patterns

### Software Engineer - Frontend

March 2022 – May 2023

Zest IoT

Hyderabad, India

- Engineered real-time IoT analytics dashboard with ECharts visualizations for 100+ devices, implementing 7-second refresh rates and unified interface to reduce operator decision time by 40%
- Developed asset tracking system integrating Google Maps API for 500+ combines across 3 international airports, achieving 90% location accuracy with custom movement interpolation
- Optimized Angular application through code splitting and infinite scroll pagination, reducing load times by 50% (10s to 5s) for data-intensive interfaces

## PROJECTS

### Matra AI | React, Javascript, Python, Flask, OpenAI, Heroku, Supabase

HackDavis 2024 Best Media Hack

- An AI-powered full-stack language learning application designed to help non-native English speaking children improve pronunciation through interactive speech analysis. The platform provides real-time vocal feedback using speech recognition technology, gamified learning experiences, and personalized pronunciation guidance.

### KingbotGPT | LlamaIndex, ChromaDB, Streamlit, MySQL, RAG, GPT-4o-mini

- An AI-powered chatbot providing 24/7 library assistance at SJSU King Library. Using Retrieval Augmented Generation (RAG), it answers student queries about library resources, directions, and research materials by leveraging library-specific knowledge bases including website content, research guides, and floor plans.