

Sujal Thomas Tatipelli

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EXPERIENCE

Junior Data Scientist

Stu Biz Solutions Pvt. Ltd.

July 2023 – July 2024, Hyderabad, India

- Collaborated on the development of an AI-powered conversational chatbot for the HR department, designed to initiate conversations with employees & efficiently respond to HR-related inquiries.
- Played a crucial role in the model-building process, leveraging DeBERTa for advanced sequence classification to enhance the chatbot's understanding & response capabilities.
- Worked on sophisticated text pre-processing techniques using NLP models such as Text Classification, NER, POS Tagging, & advanced word embedding models like BOW, TF-IDF, & word2vec.
- Applied text similarity techniques, including cosine similarity, to significantly enhance the accuracy & relevance of chatbot responses.

Data Science Intern

Pikky

January 2023 – June 2023, Fremont, California

- Developed and implemented a collaborative filtering algorithm using Python and TensorFlow, improving personalized food recommendations by 22% based on user ratings and behavioral data.
- Engineered features from diverse data sources including user profiles, dietary preferences, and restaurant menus to enhance the accuracy of the machine learning model for food pairing suggestions.
- Created interactive data visualizations using PowerBI to present key insights on user food preferences and trending cuisines to the product team, directly influencing the development of new app features.

PROJECTS

Popost – Media Flow

[popost.vercel.app/](#) • October 2023 – April 2024

- Developed Popost by leveraging technologies like React, Next.js, and MongoDB. Integrated OpenAI's GPT-4 with LangChain for enhanced content generation & implemented NextAuth for secure OAuth authentication. Also pioneered dynamic, RESTful API design incorporating SerpAPI, optimizing data management & SEO.
- Innovated in Popost by enabling users to upload videos and Loom recordings, employing AI models for content analysis & instructive voice-over generation. This significantly improved the creation of detailed, guided content for various videos.
- Designed a user-friendly interface for generating visually appealing social media content based on current events, prioritizing platform robustness and data security.

Job Jolt – Cover Letter Generator

[job-jolt.vercel.app/](#) • February 2023 – September 2023

- Built a market-leading AI-powered solution combining a React Chrome extension and Flask web app to generate tailored job application cover letters in under 20 seconds.
- Created a user-centric experience with seamless one-click LinkedIn job data extraction, streamlining the cover letter generation process and ensuring efficient API communication with the backend.
- Safeguarded the application with robust security measures, including API key validation, token-based authentication, rate limiting, secure password hashing (bcrypt), and efficient user & database management (SQLAlchemy).

Azucar – Coffee Store App

Enterprise Softwares @ SJSU • August 2022 – December 2022

- Developed a robust Spring Boot application for cashier operations, including administrative login, order processing, and cloud deployment on GCP with load balancing.
- Integrated Cloud MySQL and RabbitMQ to enable database persistence and efficient message queuing for scalability and resilience.
- Designed a custom API with Kong API Gateway and API Key Authentication, ensuring secure communication for mobile app and storefront integrations.

EDUCATION

Bachelor of Engineering, Software Engineering

Minor in Mathematics • San Jose State University • San Jose, CA • 2023

- Electives: Machine Learning & BigData / Intro to Cyber Security / Mathematical Modelling / Autonomous Robotics

INVOLVEMENT

Tech Lead

San Jose State University • Google Student Developer Club • September 2020 – December 2021

- Conducted workshops on Google products such as Flutter, Kotlin & GCP; achieved a 12% monthly growth rate & an 80% student retention rate.

SKILLS

Java, Python, Javascript, Typescript, R, SQL, Matlab, Shell, HTML, Tailwind CSS, React, Node, Next JS, Bun, Flask, Django, Spring Boot, Docker, Kubernetes, GCP, AWS, OpenAI, Zapier, Redis, Pandas, Tableau, PowerBI, Redash, Jira, Figma, Maven, LangChain, Selenium, Solidity, VertexAI.