Santosh Kanumuri

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Skills

Languages: Python, C, Java, JavaScript, SQL, MongoDB, NodeJS

Technologies & Tools: Git, Selenium, AWS, Heroku, Linux, ReactJS, Flask, Django

Libraries: Pandas, NumPy, Requests, Empath, Scikit-Learn, Matplotlib, PyMongo, Pinecone, Openai, Pydantic, Phidata

Work Experience

Texas Tech University   September 2023 - Present

Graduate Assistant

- Developed an art similarity , emotion database using Pinecone vector database to analyze over 35,000+ artworks, identify visually similar pieces, and track price trends, enhancing data-driven insights for market analysis.
- Automated data scraping and extraction workflows from 3 auction houses, reducing manual effort by 80% and storing structured data in the cloud with cron jobs for seamless scheduling.
- Designed and deployed a NLP-based software to generate similarity and parity maps for comparing brand-related tweets and extracting impactful keywords for competitive analysis.
- Developed an AI research agent leveraging the Google Search API and DuckDuckGo scraping to extract and summarize key insights on business deals, using 3rd party tools such as Phidata and the ChatGPT API to analyze and consolidate information from various news articles for provided user query
- Performed personality analysis on 900+ LinkedIn summaries using the Google Gemini API, deriving key personality traits to support recruitment and talent analytics.

PricewaterhouseCoopers   July 2022 – July 2023

Full Stack Developer

- Developed an internal target tracker web application for CitiBank, increasing system efficiency and user engagement.
- Built a centralized platform for task tracking, assignment details, and client feedback, streamlining project management.
- Python, JavaScript, HTML, CSS, Django, ReactJS, REST API, Amazon Aurora, Git, Postman

Systema Automation   Feb 2022 – Jun 2022

Python Developer Intern

- Developed a Python-based web app using Django, enhancing user engagement through improved metrics visualization.
- Led a team of three developers, achieving a 100% on-schedule project completion rate.
- Implemented responsive design and real-time data from APIs, increasing mobile user access by 40%.
- Python, Django, APIs, JavaScript, HTML, CSS, Responsive Design

Education

Texas Tech University   Aug 2023 - May 2025

Master of Science in Computer Science   *CGPA: 3.85/4.00*

Relevant Coursework: Neural Networks, Parallel Processing, Computer Security, Cryptography, Applied Data Science

Project Work

- **Alzheimer's MRI Classification with Vision-Language Models** (Nov 2024): Developed a model using vision-language models to match MRI images with text descriptions for diagnosing Alzheimer's stages: non-demented, very mild, mild, and moderate. Leveraged the Label Propagation for Zero-shot Classification with Vision-Language Models (ZLaP) technique to perform classification without extensive labeled data.
- **YouTube Emotion Analyzer** (June 2024 – July 2024): A Streamlit app that searches YouTube for videos based on keywords, downloads them, summarizes content using the Gemini API, and visualizes emotional trends.*Skills: Python, Streamlit, YouTube API, Gemini API, Data Visualization, Emotion Analysis*
- **Course Availability Tracker** (Sep 2024): Developed a full-stack application using JavaScript, Flask, and React to track university course availability. Deployed on Heroku and Netlify. *Skills: Python, Flask, MongoDB, JavaScript, React, Heroku, Netlify*