SAI SHASHANK YERRA

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EDUCATION

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY   Baltimore, MD
Master of Professional Studies: Data Science   May 2024
      Cumulative GPA: 3.9/4.0

GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING   Visakhapatnam, IN
Bachelor of Technology: Information Technology   Aug 2016 - Sep 2020

WORK EXPERIENCE

TATA CONSULTANCY SERVICES LTD.   Hyderabad, IN
System Engineer   Mar 2022 - Oct 2022
- Developed an automated process to generate customized flat files for vendor application services
- Aggregated unstructured data from 20+ sources to build the foundation of a new product

LVTLABS   Atlanta, US
Python Developer   Jul 2024 - Present
- Independently designed and built a fully functional cross-platform app in FlutterFlow, accelerating UI deployment by 75% and enabling seamless integration with backend APIs.
- Designed and implemented FastAPI microservices from scratch, enforcing strict schema validation and optimizing endpoints with asynchronous processing, which reduced API response latency by 40% and enabled real-time health data ingestion.

PROJECT EXPERIENCE

BOOK RECOMMENDATION SYSTEM   Apr 2024
- Created a Book Recommendation System using large language models and a retrieval-augmented generation strategy, improving personalized book recommendations based on user preferences
- Applied advanced data processing and web scraping techniques to extract, clean, and analyze book data from Goodreads, ensuring high-quality data for accurate recommendations

TARGETED ADVERTISING USING TWITTER DATA   Dec 2023
- Developed an advertising system leveraging large language models and the hugging face library to analyze user's tweets, enabling precise ad placements based on user sentiments and preferences
- Implemented advanced sentiment analysis and users' behavioral insights from tweets data, optimizing ad targeting and improving engagement through personalized content recommendations

VIRTUAL EYE FOR THE BLIND   Sep 2023
- Developed a solution to provide real-time audio descriptions of surroundings for visually impaired individuals
- Implemented a user-friendly application that delivers accurate object recognition and scene descriptions to enhance the navigation and independence of people who are blind

MEDICARE PAYMENT OPTIMIZATION SYSTEM   May 2023
- Offered data-driven recommendations for optimizing healthcare outcomes and cost reduction, contributing to more efficient and effective healthcare practices.
- Utilized regression and predictive modeling techniques, working with complex healthcare data, to enhance financial planning and resource allocation in the healthcare sector, ultimately improving fiscal efficiency and patient care

ACTIVITIES

ROTARACT CLUB   Visakhapatnam, IN
Member   Aug 2017 - Mar 2020
- Participated in events to spread awareness among school children on healthy lifestyle
- Conducted blood donation camps in Gayatri Vidya Parishad Hospital

WER4HELP CLUB   Visakhapatnam, IN
Member   Feb 2018 - Apr 2020
- Participated in various events of Basic needs distribution for poor people
- Raised funds for deaf and dumb people

ADDITIONAL

Programming Languages: Python, C, Java, HTML/CSS, JavaScript, SQL
Technical Skills: Proficient in SQL, Python [Matplotlib, Seaborn, NumPy, Pandas, Scikit-learn], PostgreSQL, Large Language Models, LangChain, Git, Apache Spark, Flutterflow, FastAPI, Jenkins, Docker
Platforms: DigitalOcean, Pgadmin, Postman, Databricks
Languages: Fluent in English, Telugu, Hindi