Saleep Shrestha

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Education

The University of Southern Mississippi (USM), Hattiesburg, MS August 2023 - May 2027
Bachelor of Science in Computer Science, Economic Data Analysis Minor, Honors Scholar GPA: 4.00/4.00
Relevant Courses: Data Structures and Algorithm Analysis, Computer Systems

Projects

Trading Bot for S&P 500 Stocks September 2024
Lead Developer

- Developed a Python-based trading bot that analyzes S&P 500 stocks for buy/sell signals using MACD, RSI, and Volume Moving Averages (VMA).
- Used yfinance, pandas, and NumPy to process historical stock data for 500+ companies.
- Automated trading signal notifications via Twilio and SMTP, increasing trading efficiency by eliminating manual monitoring of stock indicators.

Server's Tips Analysis July 2024
Data Analyst Notebook Link

- Analyzed restaurant tipping behavior using Python, Matplotlib, and Seaborn, finding correlations between demographics and tipping patterns.
- Created visualizations, including heatmaps, finding a 30% higher tip rate from larger customer groups.

Sentiment Analysis April 2024
Researcher Github Link

- Increased sentiment analysis accuracy by 20% on Elon Musk's tweets and Tesla-related news using the Arabica library.
- Scraped and preprocessed 700+ news articles and tweets with BeautifulSoup to generate actionable insights.

EasyLib April 2024
Lead Developer Github Link

- Boosted library management efficiency by 30% by developing a user-friendly C++ library management system with real-time data tracking.
- Implemented a file handling system using external .txt files to track book borrow/return records, improving data accuracy.

Trash Talk Nov 2023
UI/UX and Front-End developer Github Link

- Developed a waste classification system achieving 85% accuracy by integrating a TensorFlow back-end with a ReactJS front-end for real-time object analysis.
- Designed a real-time camera pop-up feature to capture and process waste images for classification.

Experience

School of Computing Sciences and Engineering, USM Present
Undergraduate Research Assistant Hattiesburg, MS

- Contributed to a team of 5+ researchers analyzing phishing attacks, specifically focusing on email-based threats using predictive analysis.
- Gathered and preprocessed a dataset of 1,000+ emails, improving research data accuracy.

Housing and Residence Life, USM Present
Resident Assistant Hattiesburg, MS

- Managed a community of 40+ residents, providing direct support and facilitating communication.
- Organized and conducted monthly hall meetings and events, improving resident's engagement and well-being

Google Developer Student Clubs (GDSC) Present
Member Hattiesburg, MS

- Developed a web scraping project for a manga website using Python and BeautifulSoup, gaining 10% improvement in data extraction efficiency.
- Engaged a community of 50+ developers to solve real-world problems using Google technologies.

Achievements

USM	Presidents List	2024
USM	Presidents List	2023
USM	Honors Discovery Scholarship	2023

Technical Skills

Programming languages: Python, SQL, C, C++, JavaScript
Technologies/Frameworks: Pandas, Numpy, Matplotlib, Seaborn, Arabica, Scikit-Learn, Tensorflow, Regression, Github, MySQL, Latex, Photoshop