





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

Sudoku Solver	December 2024
Lead Developer	Github Link
<ul style="list-style-type: none">Implemented a C++17-based Sudoku solver reducing average puzzle solution time by 60% by using a Ternary Search Tree algorithm for optimized backtracking and real-time conflict detectionDesigned a modern Qt6-based, dark-themed GUI increasing user engagement by 25% through intuitive input validation, dynamic feedback, and streamlined puzzle navigation	
HealthCheck	November 2024
Lead Developer	Github Link
<ul style="list-style-type: none">Implemented a multilingual medical checklist web app improving patient/family procedure adherence by 20% by integrating OpenAI-based translation APIs and TTS features	
Trading Bot for S&P 500 Stocks	September 2024
Lead Developer	
<ul style="list-style-type: none">Developed a Python-based trading bot that improved buy/sell signal accuracy by 15% by integrating MACD, RSI, and Volume Moving Averages on 500+ S&P stocks using yfinance and pandasAutomated trading notifications reducing manual monitoring time by 100% via Twilio and SMTP APIs	
Server's Tips Analysis	July 2024
Data Analyst	Notebook Link
<ul style="list-style-type: none">Analyzed 1,000+ tipping records identifying a 30% higher tip rate in larger groups by using Python, Matplotlib, and Seaborn to find demographic tipping patterns	
Sentiment Analysis	April 2024
Researcher	Github Link
<ul style="list-style-type: none">Improved sentiment classification accuracy by 20% on 700+ Elon Musk/Tesla-related news articles by using the Arabica library and advanced preprocessing in BeautifulSoup	

EXPERIENCE

School of Computing Sciences and Engineering, USM	Present
Undergraduate Research Assistant	Hattiesburg, MS
<ul style="list-style-type: none">Enhanced phishing detection research improving dataset accuracy by 10% by preprocessing and analyzing 1,000+ email samples with predictive modeling techniques in PythonContributed to a 5 person research team accelerating project timelines by 15% through data cleaning, feature engineering, and automation scripts	
Housing and Residence Life, USM	Present
Resident Assistant	Hattiesburg, MS
<ul style="list-style-type: none">Managed a community of 40+ residents increasing engagement by 25% by organizing monthly tech workshops, Q&A sessions, and social events that fostered a supportive living environment	
Google Developer Student Clubs (GDSC)	Present
Member	Hattiesburg, MS
<ul style="list-style-type: none">Developed a Python-based web scraping project improving data extraction efficiency by 10% by deploying BeautifulSoup and REST APIs to automate collection from a manga websiteCollaborated with a 50+ developer community driving solution ideation for real-world problems by using Google Cloud tools and open-source technologies	

ACHIEVEMENTS

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

TECHNICAL SKILLS

Languages: Python, C, C++, SQL, JavaScript
Tools & Frameworks: Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn, Tensorflow, Open AI API, BeautifulSoup, Github
Concepts: Machine Learning, Regression Analysis, Quantitative Data Modeling, Automation, ETL
Additional Skills: Multilingual Support Integration, REST APIs, Data Visualization, Data Scraping