

SONIKA SHRESTHA

Mankato, MN 56001 | sonikashrestha1997@gmail.com | 5077599987 | <https://www.linkedin.com/in/sonika-shrestha/>

PROFILE SUMMARY

Graduate student pursuing a degree in data science who is self-motivated and eager, who has curiosity about applicable technology and data processing abilities and want to utilize the problem-solving talents to help solve your business problems by shadowing a data professional.

EDUCATION

MS in Data Science/ *Minnesota State University, Mankato* Expected Graduation: December 2023
BS in Management Information System| *Minnesota State University, Mankato* December 2020
Minor in Database Technologies and Certification in Information Security

SKILLS

Programming Languages and Framework: Python, HTML5, Java Script, CSS, T-SQL, Django
Big Data: Hadoop, HDFS, MapReduce, Spark, HIVE, Neo4j
Visualization Skills: Power BI, Tableau, SSRS
Databases: MySQL, SQL Server, Oracle, MS Access
Web Scrapping : Beautiful Soup
Project Management Tools: JIRA, Trello, and Slack
Applications: MS Office 365(Word, Excel, PowerPoint, Outlook, OneNote), Zoom, Teams
Interpersonal Skills: Good communication, Problem Solving, Analytical, Organized, Detail Oriented, Teamwork

RELATE COURSE

Big Data | Data Analytics | Advance Database | Machine Learning | Foundation of Data Science| Artificial Intelligence

REAL PROJECTS

Predicting Home Game Attendance at MLB Games for MN Twins at Target Field for 2023 season

Participated in a rigorous data analytics competition where we secured 5th position among the graduate division. Identified 5 factors that affected the game attendance in Target field and provided some optimized solutions and recommendations for 2023 season to increase the game attendance. Utilized Tableau, PowerBI, Excel and Python to do analysis, visualize and develop optimized predictive model that can be used any time of the season to predict the gate attendance. Also, used research skills to find various factors that can affect the MLB game attendance.

Sota Station “Your one stop shop!” 2019

Helped in the project with operational and IT support where I was involved in various operational decisions and creating digital contents for the marketing and research. This project was related to creating a real business of your own with group of 15-20 students where you will have 4 months to build a business from scratch and run it until the end of the semester and give 100% of the profit to MY PLACE to help empower local youth at risk.

ACADEMIC PROJECT

Analyzing Order Management System

Developed the ETL process to get the data from MS-SQL server and Oracle and transform it using Python. Validated multiple databases of order management system in MS-SQL Server, utilizing data dictionary, TSQL, stored procedure, triggers and skillfully leveraged Power BI, SSRS, and Excel to produce informative and visually appealing dashboards that effectively analyzed the data at hand. Use of TSQL to create various stored procedures for various user defined functions.

Covid-19 Vaccine Rate Prediction

Conducted predictive analysis on COVID-19 data obtained from “ourworldindata.org” to find the factors that affects the vaccination rates. Developed ARIMA time-series model and used Python to effectively predict 3 months global vaccination rate.

RESEARCH PROJECT

Detection of SLE (Systemic Lupus Erythematosus) using Synthetic images of Butterfly Malar Rash on CNN-A Review

Aimed to help people suffering from a rare disease called LUPUS which doesn't have any cure until the date. Conducted in-depth analysis of 40+ scholarly articles related to Image Recognition, CNN, Transfer Learning, and General Adversarial Network (GAN) in medical science. Performed binary classification to determine if the image contains BMR or NOT. **Scrapped images from various web platforms like Bing and google using beautiful soup.** Presented the paper on 4th Colloquium on Analytics, Data Science, and Computing (CADSCOM 2022) conducted by Twin Cities ACM Chapter on November 19, 2022.

WORK HISTORY

Graduate Assistant / College of Business /MNSU, Mankato / September 2022 - Present

- Systematically recorded, maintained, and tracked student progress and grades of over 300 individuals, utilizing D2L Brightspace each semester.
- Conducted meticulous analysis and proofreading of documentation, proactively notifying faculty and staff of any errors or issues pertaining to exams, events, or assignments.
- Solicited and synthesized student feedback following each class or activity, utilizing insights to enhance the overall classroom experience and address any concerns or issues.

Web Developer Intern / Magic Expedition Tours & Travel /Nepal, Kathmandu / March 2021 – December 2021

- Developed custom trip web application that led customers to customize the trips based on provided information.
- Utilized HTML, CSS and JS for frontend and Django Framework for the backend to create various REST APIs like travel and budget management, Search and Recommendation etc.
- Increased the sales of the packages by 20% in 6months giving top priority to people's need.

Business System Analyst Intern / Takeo.AI /Queens, NY / December 2019 - March 2020

- Recruited to serve as a reliable liaison between stakeholders and development team, ensuring seamless communication and timely acquisition of current information.
- Developed and maintained the whole project scope and system version documentation for easier access to all the project information.
- Collaborated with the database developer to construct Entity Relationship and workflow diagrams, facilitating project development and optimization.

Student Manager / Sodexo / MNSU, Mankato / January 2017 – May 2019

- Accurately adhered to and respected food safety regulations when serving more than 300 college students daily.
- Trained 10 to 15 freshly hired employees in how to use POS at all food stations and the rules for food safety every semester.
- Trusted by supervisor to manage inventories and cashiers to provide daily report with 100% accuracy using POS system.