

SHNEHI KARKI

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PROFESSIONAL SUMMARY

Detail-oriented and enthusiastic Data Science graduate with a Master's degree in Data Analytics and an ongoing pursuit of a second Master's degree in Data Science. Possessing a comprehensive understanding of statistical analysis, machine learning algorithms, and data visualization techniques. Proficient in Python, SQL, R, and various data manipulation libraries. Skilled in leveraging data to derive actionable insights and drive informed decision-making. Eager to apply academic knowledge and hands-on experience to contribute effectively in a dynamic, data-driven environment

SKILLS

Programming Languages: (Python, R, SQL, HTML, CSS)

Software Tools: (Git, Jupyter Notebook, Google Colab, RStudio)

Visualization Tools: (Tableau, PowerBI, Matplotlib, Seaborn, Plotly, Bokeh, ggplot2, Geopandas, Folium, R Shiny, Streamlit)

Databases: (MySQL, PostgreSQL)

Analytical Techniques: (Statistical Analysis, Machine Learning, Data Mining, Time Series Analysis, Natural Language Processing (NLP))

DATA SCIENCE EXPERIENCE

Knowledge Scale

Manassas, VA

Data Analyst Intern

April 2023 – Jan 2024

- Spearheaded the design of data structures, enhancing accessibility and reliability, leading to a 15% increase in efficiency.
- Led data analysis project driving key business decisions and product enhancements
- Developed comprehensive data visualization and reports, empowering stakeholders and increasing satisfaction.

ADDITIONAL EXPERIENCE

Junior Data Scientist, Volunteer

Remote

Position

- Successfully deployed trained ML models into production environment environments ensuring they met high scalability requirements.
- Produced detailed reports that provided actionable insights from ML experiments, facilitating informed decision-making.
- Collaborated effectively with stakeholders to develop AI and ML solutions for business problems, aligning technical solutions with organizational objectives.

PROJECTS

The Blue Zone Project

April 2024 - present

- Spearheading the identification of regions within the U.S. where individuals experience longer and happier lives, known as "blue zones".
- Leading the analysis of diverse datasets including health, lifestyle, social, and environmental factors to pinpoint patterns indicative of blue zones.
- Leveraging Python for data analysis and machine learning, particularly utilizing deep, algorithms, to achieve accurate predictions.

Classifying Space Debris

Feb 2024

- Employed Random Forest algorithms to achieve a 97% accuracy rate in predictive modeling for space debris analysis using Python.

- Conducted thorough statistical analyses to identify patterns in space debris data, enhancing model robustness and accuracy.
- Deployed the predictive model on Streamlit, enabling interactive user engagement and real-time model performance visualization.

Predicting Alzheimer's Disease Stages Using Deep Learning with CNN

- Created a deep learning machine model using CNN to categorize Alzheimer's disease stages, including preclinical, mild, moderate, and severe late stages
- Evaluated the model's performance on the data, achieving a testing accuracy of 91.38%.
- Deployed the predictive model on Streamlit, enabling interactive user engagement and real-time model performance visualization.
- Utilized neural network techniques to build the model, with evaluation metrics including accuracy, area under the curve (AUC), and F1-score.

LEADERSHIP AND ACHIEVEMENTS

- Distinguished Scholar, Southern New Hampshire University: Awarded for outstanding academic performance in data science.
- Project Lead, Omdena: Led a team of 5-6 in developing a predictive machine learning model to forecast urban growth in Africa, enhancing decision-making and project collaboration.

EDUCATION

Eastern University, St. Davids, PA

Master of Science in Data Science (Anticipated October 2024)

Relevant Coursework: Introduction to Foundation of Data Science, Introduction to Statistical Modeling, Analytics with R, Data Manipulation, Applied Machine Learning, Data Manipulation, Data Visualization

Southern New Hampshire University, Manchester, NH

Relevant Coursework: Enterprise Data Management, Decision Methods and Modeling, Presentation and Visualization of Data, Optimization and Risk Assessment, Predictive Analytics, Advanced Data Analytics, Project Management

University of Massachusetts at Lowell, Lowell, MA

Bachelor of Science in Information Technology

Courses: Introduction to Python Programming, C++, Java Development, HTML CSS, Database Modeling, Data and Database Management with SQL

Bachelor of Science in Biology, Portland, ME

Courses: Calculus I, Calculus II, Biostatistics