REJINA GIRI

Graduate Assistant

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Profile Summary

I am a motivated Computer Science graduate student with a strong background in machine learning, deep learning, and image classification. Experienced in building end-to-end pipelines for disease detection using Python, CNNs, and data preprocessing. Passionate about advancing medical image analysis through AI, with hands-on experience in healthcare-related ML projects.

Skills

Professional skills	Project Coordination | Communication | Critical thinking | Presentation | Cross-Functional Collaboration | Data Visualization | Documentation
Technical skills	Python | NumPy | Pandas | Matplotlib | C++ | SQL | TensorFlow | Keras | PyTorch | OpenCV | CNNs | Transfer Learning | Data Augmentation | R | Tableau | Power BI | MySQL | Excel

Work Experience

Graduate Assistant

School of BEES, The University of Southern Mississippi, Hattiesburg, MS   January 2024- Present
- Managed datasets for academic records and departmental reporting using Excel and SQL.
- Supported automation of documentation processes, improving task tracking and faculty communication.
- Coordinated logistics for departmental events and meetings, demonstrating multitasking and team collaboration.

Enterprise Support Engineer

WorldLink Communications Limited, Kathmandu, Nepal   December 2021- May 2023
- Led data-driven troubleshooting for network systems; collaborated on customer experience analytics.
- Documented analytics processes and automated business reporting in Excel and SQL.

Education

Master of Science; Major: Computer Science

The University of Southern Mississippi, Hattiesburg, MS   August 2023- May 2025

Relevant Coursework: Machine Learning, Artificial Intelligence, Data Analysis, Information Security

Certifications

Google Data Analytics Professional Certificate   August 2024 - Present

Platform: Coursera

IBM Data Analyst Professional Certificate   July 2024 - Present

Platform: Coursera

Projects

Skin Disease Classification using CNN   August 2024- Present
- Developed an image classification model using deep learning to detect malignant vs. benign skin conditions.
- Applied custom data augmentation and feature engineering for improved performance.
- Used Python, TensorFlow/Keras, and CNNs to build and evaluate models.

Identification of Rice Plant Disease Using Deep Convolutional Neural Network   January 2024 - May 2024
- Implemented a deep convolutional neural network to detect plant diseases from image data.
- Supported model training and performance tuning for higher classification accuracy.

Waste Management Classification using CNN   August2023- December 2023
- Created a complete ML pipeline for image classification in the sustainability domain.
- Used data preprocessing, CNN architecture, and model evaluation metrics to optimize accuracy.