MONISH GALLA

AI Engineer/Software Engineer

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EDUCATION

Master of Science in Artificial Intelligence
University of North Texas — August 2023 – May 2025

Bachelor of Technology in Mechanics
S.V College of Engineering — June 2019 – April 2023

TECHNICAL SKILLS

- **Programming Languages**: Python
- **BI Technologies**: Power BI and Tableau
- **Tools**: VS Code, Eclipse, Google Colab
- **Frameworks**: Keras, TensorFlow
- Machine Learning, Deep Learning

PROFESSIONAL EXPERIENCE

Cognizant
Internship — August 2022 – September 2022
Artificial Intelligence Experience Program

- Collaborated on AI-driven solutions, enhancing efficiency through machine learning algorithms and data analysis.
- Researched AI applications across five industries, improving analytical capabilities and assessing the impact of emerging technologies on business operations.
- Operated Python for data manipulation and model implementation, achieving a 25% reduction in data processing time with libraries like Pandas and Scikit-learn.
- Presented data visualizations, communicating insights and enhancing decision-making for non-technical audiences.
- Joined in workshops on AI ethics, deepening understanding of ethical considerations and improving decision-making frameworks in AI deployment.

PROJECTS

Classifying Different Land Uses in Satellite Photos Using CNN — February 2024 – April 2024

- Integrated VGG architecture in satellite image segmentation to optimize computational costs, reducing training time.
- Segmented land areas, including water bodies, vegetation, cloudy regions, and desert areas, achieving 40% accuracy in classification results.
- Improved model efficiency by streamlining data preprocessing steps, decreasing image processing time.
- Implemented environmental monitoring applications with precise land use identification across diverse satellite datasets.

LTSM Stock Market Prediction — September 2023 – December 2023

- Developed machine learning algorithms to forecast stock prices for top U.S. companies in the S&P, achieving a prediction accuracy rate.
- Executed models, including LSTM and ARIMA, resulting 30% reduction in prediction error compared to baseline models.
- Analyzed stock movement trends and identified profitable trading strategies, increasing simulated trading returns during the project duration.
- Designed a user-friendly web application that facilitated real-time stock price predictions, enhancing user engagement by 40% through interactive features.

CERTIFICATIONS

- Completed Python for Computer Vision with OpenCV and Deep Learning course – Udemy.
- Completed Foundations in Generative AI tools and Artificial Intelligence – LinkedIn.