Nikhil Reddy Kandadi

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EDUCATION

University of Michigan — Dearborn, MI
Masters of Science in Data Science — *Jan 2025 – Dec 2026*
Mahindra University — Hyderabad, IND
Bachelor of Technology in Artificial Intelligence — *Aug 2020 – Aug 2024*

TECHNICAL SKILLS

Languages: Python, C, SQL (Postgres and NoSQL), HTML, CSS, JavaScript
Frameworks: NumPy, Pandas, TensorFlow, Flask, Matplotlib
Developer Tools: VS Code, PyCharm, Git, Google Cloud Platform, Excel, Power BI

EXPERIENCE

Data Analyst Intern at MeriSKILL | Link — Sep 2023 – Oct 2023
Mahindra University — *Hyderabad, IND*

- ✓ Gained hands-on experience with Power BI by creating dashboards and visual reports for effective data analysis.
- ✓ Deepened knowledge of SQL and Python by learning and applying advanced concepts for data manipulation and analytics.

PROJECTS

Malware Analysis: — Aug 2023 – Dec 2023

- ✓ Worked on developing Deep-Learning based techniques for identifying malicious files. CNN and other algorithms (LSTM) are used for Malware Image Detection.
- ✓ Conducted comparative performance evaluation of CNN and LSTM models, optimizing hyperparameters to enhance detection accuracy and robustness against adversarial inputs.
- ✓ Implemented a CNN-based image classification model with data augmentation, achieving multi-class classification across 27 categories using a 3-layer convolutional network with ReLU activation and softmax output.

Identification of Rice Varieties Using ML Algorithms: — Jan 2023 – May 2023

- ✓ The photos were pre-processed before being made accessible for feature extraction. The photos yielded a total of 106 features. Various classification algorithms are used to classify rice varieties.
- ✓ Performed model benchmarking and validation across multiple ML algorithms (Decision Tree, SVM, Random Forest), selecting the best-performing model for deployment-ready classification.
- ✓ Developed a rice grain classification model using Decision Tree, achieving 97% accuracy on a dataset of 75,000 samples.

Multi-View Face Recognition: — Jan 2024 – May 2024

- ✓ This project focuses on developing a Multi-View Face Recognition System. We as a team initially implemented a K-Nearest Neighbors (KNN) algorithm but encountered limitations in accuracy, prompting a transition to the advanced ArcFace algorithm.
- ✓ ArcFace significantly improved accuracy to approximately 90%, showcasing its prowess in handling complex facial features and multi-view scenarios.
- ✓ The project addresses gaps in traditional face recognition systems, emphasizing the importance of advanced methodologies for accurate and reliable multi-view face recognition.

FinInsight: AI-Powered Financial Analysis Platform: — Jan 2025 – May 2025

- ✓ Developed an AI-powered financial analysis system by integrating news articles, Reddit discussions, and SEC filings, enabling automated insights into market sentiment and financial trends.
- ✓ Applied Natural Language Processing (NLP) techniques for sentiment analysis and topic modeling on large-scale unstructured financial text data.
- ✓ Designed and implemented machine learning pipelines in Python (Jupyter Notebook & scripts) for data preprocessing, model training, and predictive analysis of financial market behavior.

CERTIFICATIONS

Machine Learning | Coursera | Link — Jun 2025

- ✓ I completed the Machine Learning Specialization on Coursera, where I learned key concepts including supervised and unsupervised learning, neural networks, decision trees, and reinforcement learning. I developed practical skills to build, evaluate, and apply machine learning models to real-world problems using best practices.

Generative AI for Data Analysts | Coursera | Link — Jun 2025

- ✓ I mastered generative AI tools like ChatGPT and DALL-E, specializing in prompt engineering and applying AI to enhance data analytics, visualization, and ethical data handling.