

NIYALA A N

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PROFILE

Passionate and driven AI & ML student with hands-on experience in data science, machine learning, and deep learning. Skilled in data preprocessing, model development, and statistical analysis with strong interest in applying AI techniques to solve real-world problems. Seeking internship to attain professional knowledge in Machine Learning and Artificial Intelligence for the growth of organization and mine as well.

SKILLS

Programming & Libraries: Python, Java, C++, R, SQL, NumPy, Pandas, Matplotlib, Seaborn

Machine Learning / AI: Scikit-learn, TensorFlow, PyTorch, Keras, OpenCV

Data Handling: Data Cleaning, Feature Engineering, Data Visualization

Tools & Platforms: Jupyter Notebook, VS Code, Google Colab, Git, Azure, Power BI, Excel

Other Skills: Deep Learning, CNN, RNN, LSTM, NLP, Computer Vision, Data Analytics, LLMs, RAG

PROJECTS

Deep Learning-Based Crop Classification Using Hyperspectral Images

- Tools: Python, CNN, Random Forest, Naïve Bayes, OpenCV
- Developed a crop classification system using hyperspectral image data.
- Implemented CNN, Random Forest, and Naïve Bayes models.
- GitHub: <https://github.com/NiyalaNazeer/Deep-Learning-Crop-Classification>

Retrieval-Augmented LLM-Based PDF Query Engine

- Technologies: Python, Gradio, Groq API
- Developed an AI-powered document assistant that allows users to upload PDFs and ask questions about their content using a Large Language Model (LLM).
- Built an intelligent PDF Question Answering system using a Retrieval-Augmented Generation (RAG) pipeline.
GitHub: <https://github.com/NiyalaNazeer/Retrieval-Augmented-LLM-Based-PDF-Query-Engine>

INTERNSHIP & EXPERIENCE

Data Science Intern – Dataspark Analytics

July – October 2025

- Developed interactive dashboards using Power BI.
- Applied advanced Python and deep learning techniques.
- Worked on NLP tasks and managed end-to-end project workflows.
- Tools: Python, Power BI, Scikit-learn, TensorFlow, Jupyter Notebook.
- Also Developed a machine learning-based "income tax risk assessment system" by analyzing high-frequency financial transaction data. Implemented and compared models including Logistic Regression, Random Forest, AdaBoost, XGBoost, and Gaussian Naive Bayes. Built an interactive Streamlit dashboard for data visualization .

Java Full Stack Intern

september - november 2024

- Gained hands-on experience in Core Java and database connectivity.
- Completed five mini projects demonstrating backend development skills.

Marketing & Data Analysis Intern – Linways

April-May 2023

- Performed data collection and analysis to support strategic decision-making.

RESEARCH PUBLICATIONS

- **AI Detectives: Unraveling Cyber Mysteries through Advanced Forensic Techniques**
Proceedings of National Seminar on Artificial Intelligence & Machine Learning,
ISBN: 978-81-962550-3-9.
- **Harnessing Metaverse Technologies through E-Commerce Evolution**
Proceedings of International Conference on Intelligent Horizons,
ISBN: 978-81-962550-5-3.
- **Deep Learning-Based Crop Classification Using Hyperspectral Images**
Proceedings of International Conference on Recent Trends on Artificial Intelligence(2025)
ISBN : 978-81-985405-4-6

EDUCATION

Integrated MSc Computer Science (AI & ML)

2022 – 2027

Mahatma Gandhi University, Kottayam

ICSE – MES Udyogamandal School,Ernakulam

2008 – July 2022

LANGUAGES

English (Fluent)
Malayalam (Fluent)
Hindi (Intermediate)

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Niyala A N