Niranjan T

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Professional Summary

AI & Data Science undergraduate specializing in production-ready machine learning solutions across NLP and computer vision. Experienced in building end-to-end data pipelines, training and evaluating models, deploying ML systems via Flask and Streamlit, and translating outputs into decision-ready Power BI dashboards. Strong exposure to enterprise analytics, MongoDB, vector search, and RAG-based architectures, with a focus on converting real-world data into scalable, business-aligned AI products.

Education

B.Tech – Artificial Intelligence and Data Science
Karunya Institute of Technology and Sciences *2023 – 2027 (Expected)*

Technical Skills

Programming: Python, SQL
Data Science: Pandas, NumPy, scikit-learn, Exploratory Data Analysis, Feature Engineering
Machine Learning: Classification, Regression, Cross-Validation, Error Analysis
Deep Learning: TensorFlow
Computer Vision: YOLO, Object Detection, Image Processing
NLP: Text Preprocessing, TF-IDF
Tools & Platforms: Flask, Streamlit, MongoDB, Git, Power BI, Jupyter Notebook

Internship

Data Science Intern – Edify Techno Solutions, Chennai *2025*

- Delivered end-to-end machine learning pipelines in Python by ingesting raw data, performing EDA and feature engineering, and training models evaluated using cross-validation and error analysis.
- Prototyped and benchmarked deep learning models in TensorFlow for computer vision and NLP use cases, comparing results against classical ML baselines.
- Deployed ML solutions as lightweight web applications using Flask and Streamlit with reproducible notebooks and version-controlled codebases.
- Built interactive Power BI dashboards that translated model outputs into business KPIs and operational insights for stakeholders.
- Collaborated with mentors to scope problem statements, document findings, and present weekly progress updates to ensure alignment with project goals.

Projects

Fake News Detection System

- Designed and trained an NLP-based classification pipeline using TF-IDF and supervised learning techniques.
- Evaluated model performance using accuracy and precision–recall metrics and deployed the solution via a Flask web application for real-time inference.

Early Plant Disease Prediction Using Airborne Spore Detection

- Developed a proactive disease forecasting system by capturing airborne fungal spores using a microscopic camera and spore trap.
- Applied YOLO-based object detection to classify spore types and analyzed temporal occurrence patterns to enable early disease risk prediction.
- Built predictive models to support preventive agricultural decision-making before visible symptoms appeared.

AIRA – Adaptive Insights and Reliable Actions

- Co-developed a multimodal enterprise analytics platform integrating four AI models for Finance, Governance, Risk, and Market analysis.
- Aggregated cross-domain model outputs into unified insights to support data-driven strategic decision-making at the organizational level.

Certifications

Hands-On Data Visualization with Microsoft Power BI – Infosys Springboard (2025)
Exploratory Data Analysis – Infosys Springboard (2024)
Python 101 for Data Science (PY0101EN) – IBM Cognitive Class (2025)
Data Fundamentals – IBM SkillsBuild (2024)
Building AI-Powered Search with MongoDB Vector Search – MongoDB (2025)
Building RAG Applications Using MongoDB – MongoDB (2025)