

# Achyuth Kumar Miryala

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## JUNIOR AI ENGINEER • MACHINE LEARNING ENGINEER • DATA SCIENTIST

AI/ML enthusiast with hands-on experience building and deploying predictive models, optimizing time-series pipelines, and applying ML to real-world decision systems. Skilled in Python, TensorFlow, PyTorch, and cloud tools (GCP, Azure) with a strong grasp of capital markets and sustainable AI. Experienced in using structured + alternative data, feature engineering, and integrating models into production.

## TECHNICAL SKILLS

**Languages & Tools:** Python, SQL, Git, VS Code, Jupyter, Colab, Docker, FastAPI, Flask

**Libraries & Frameworks:** NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, XGBoost, Matplotlib, Joblib

**ML Techniques:** Regression, Decision Trees, Clustering, PCA, Sentiment Analysis, Credit Scoring, Time-Series

**Concepts:** Lag Features, Autocorrelation, Stationarity, Model Evaluation, Fairness & Robustness

**Cloud Platforms:** GCP (BigQuery, Vertex AI), Azure, Google Colab (GPU), AWS (Basic)

**Data & Engineering:** ETL, SQL-based queries, API integration, Model Deployment, ML Monitoring

## PROFESSIONAL EXPERIENCE

### AI/ML R&D and Product Intern, CryptOnest.io | Remote – USA

July 2025 – Present

- Designed and deployed a **Model Context Protocol (MCP) server** using **FastAPI**, enabling structured communication between AI agents.
- Built and orchestrated a **multi-agent architecture**, managing task routing and endpoint interactions for modular reasoning.
- Deployed scalable microservices on **Google Cloud Run** with low-latency production inference pipelines.
- Collaborated with developers in **daily standups**, contributing to system architecture decisions and resolving deployment issues.

### Data Analyst, UNT Transportation Department | Denton, TX

September 2023 – May 2025

- Designed and optimized **predictive models** for vehicle route optimization using **Python (Pandas, NumPy, Scikit-learn)**.
- Applied **time-series forecasting** (lag features, moving averages) to identify patterns in rider demand.
- Created Power BI dashboards for real-time monitoring; reduced downtime by 15% through data-driven route planning.
- Worked closely with SQL-based ETL pipelines to prepare structured datasets for modeling.

### Data Science Intern, LetsGrowMore | Remote – India

May 2023 – June 2023

- Developed classification and clustering models using **KMeans**, **Logistic Regression**, and **PCA**.
- Conducted **exploratory data analysis** and feature engineering on diverse datasets to drive insights.
- Built **ML dashboards** with matplotlib & seaborn to communicate model results effectively.

## PROJECTS

### HR Analytics Dashboard | *Tableau, Excel* | [Tableau](#)

- Developed a KPI dashboard for HR insights across **5 metrics**, including hiring trends and turnover rates
- Enabled HR managers to make **real-time decisions** and track diversity metrics quarterly

### RAG-Wikipedia-QA Pipeline | *Python, LangChain, FAISS, Sentence Transformers, Hugging Face, Gradio* | [GitHub](#)

- Built end-to-end retrieval-augmented dashboard; 87 % top-1 accuracy, deployed Gradio app.

### Weather-Aware Paddy Disease Detection | *TensorFlow, CNN (EfficientNetV2L), OpenCV, Weather API* | [GitHub](#)

- Built an image classification pipeline enhanced by real-time **weather API** inputs (e.g., humidity, temperature, precipitation).
- Merged structured weather data and image data for dynamic model input using **Google Colab** and TensorFlow/Keras.

## EDUCATION

**M.S Data Science** | University of North Texas | August 2023- May 2025 | GPA: 4.0/4.0

**Relevant Coursework:** Financial Modeling, Statistical Analysis, Data Warehousing, Forecasting