

# Venu Thota

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## OBJECTIVE

Aspiring Machine Learning Engineer with hands-on experience in deploying ML pipelines, NLP solutions, and predictive models. Skilled in Python, SQL, and cloud platforms with a passion for delivering data-driven business solutions. Seeking roles in AI/ML engineering and data science domains.

## EDUCATION

### Bachelor of Technology in Computer Science (AI and ML)

Dec 2021 – Apr 2025

NRI Institute of Technology, Andhra Pradesh

CGPA: 8.0/10

- Relevant Courses: Machine Learning, Deep Learning, Natural Language Processing, Data Mining, Cloud Computing, Operating Systems

## EXPERIENCE

### Machine Learning Engineer Intern

Apr 2025

HMIES Solutions Pvt. Ltd.

On-site

- Built and deployed 2 ML models: NLP-based query classifier (93% accuracy) and CKD predictor (89% ROC-AUC).
- Automated preprocessing workflows and feature pipelines using Pandas, improving model training time by 40%.
- Tuned hyperparameters using GridSearchCV; integrated Flask REST API for real-time predictions.
- Coordinated with 3 cross-functional teams to deliver model deployment in production-grade systems.
- Achieved internship certification by successfully completing end-to-end AI product cycle.

## PROJECTS

### Sentiment Analysis System

Python, Scikit-learn, NLTK

- Built a sentiment classification pipeline (85% F1-score) using TF-IDF, Naive Bayes, and Logistic Regression.
- Handled 3,000+ text samples; optimized recall with balanced training and preprocessing techniques.

### Chronic Kidney Disease Prediction

Python, Pandas, Random Forest

- Used real-world healthcare dataset (400+ records) to train classification model using SMOTE and Random Forest.
- Achieved 91% precision and reduced false negatives by 25% using feature engineering and threshold tuning.

## CERTIFICATIONS

Microsoft Certified: Azure Data Engineer Associate — Aug 2024

HackerRank Python (Intermediate) Certificate — Sep 2024

Industrial Internship Certificate (HMIES & APSCHE) — Apr 2025

## TECHNICAL SKILLS

- **Languages:** Python, SQL, Java
- **ML & Data Tools:** Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, GridSearchCV
- **Deep Learning:** TensorFlow, PyTorch (beginner)
- **NLP:** NLTK, Regex, Tokenization, Lemmatization, TF-IDF, Text Classification
- **Deployment:** Flask, Streamlit, REST APIs, Postman
- **Platforms:** Git, GitHub, Jupyter, VS Code, Google Colab
- **Cloud:** Microsoft Azure, Google Cloud Platform (GCP)