PADAKANDLA VENKATA NAGA SAI HASINI

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PROFESSIONAL SUMMARY

AI/ML Engineer with 6+ months of hands-on internship experience building end-to-end Python-based AI solutions leveraging LLMs, RAG pipelines, model fine-tuning, and NLP. Achieved 90–92% accuracy on an LLM-powered Fake News Detector and 95–99% on a healthcare predictive model, using SQL-driven data pipelines and Pandas/NumPy. Proficient in rapid prototyping with HuggingFace Transformers and deploying Streamlit applications.

TECHNICAL SKILLS

Core: Python, SQL, NumPy, Pandas, Matplotlib, Seaborn, Plotly
LLM & GenAI: LLMs, RAG (Retrieval-Augmented Generation), Model Fine-Tuning, HuggingFace Transformers, BERT, CTGAN
ML & Tools: Scikit-learn, TensorFlow, Keras, PyTorch, Streamlit, Jupyter, Git, OpenCV, CNNs

EXPERIENCE

AI Intern | UptoSkills (Remote) *Oct 2025 – Jan 2026*

- Designed Python modules for LLM-powered chatbot systems; implemented RAG-style retrieval pipelines and task breakdown engines, improving response accuracy by ~20%.
- Fine-tuned emotion detection models and built reusable, production-grade conversational AI components across 5+ modules, boosting system reliability and scalability.

AI & Cloud Technologies Intern | IBM SkillsBuild / Edunet Foundation (Remote) *Sep – Oct 2025*

- Fine-tuned BERT-based LLM using HuggingFace Transformers and Python for fake news classification, achieving 90–92% accuracy through hyperparameter tuning and threshold calibration.
- Built end-to-end ML pipeline: data preprocessing with Pandas/NumPy, SQL-style feature queries, model evaluation, and real-time Streamlit deployment with credibility scoring.

Conversational Data Analysis Intern | VOIS / Edunet Foundation (Remote) *Sep – Oct 2025*

- Used LLM-assisted analysis on 500K+ row Netflix/Airbnb datasets via Python, Pandas, and SQL to surface pricing patterns and content trends for strategic decisions.
- Automated data processing and reporting pipeline with Pandas + Jupyter, reducing reporting time by 30%; visualized insights with Matplotlib, Seaborn, and Plotly dashboards.

AI & ML Intern | GlobalNext Consulting India Pvt. Ltd. (Remote) *Aug – Oct 2025*

- Generated synthetic medical datasets using CTGAN (Python) to resolve class imbalance, improving model robustness and training stability by ~25% on downstream predictors.
- Delivered NumPy/Matplotlib-based statistical visualizations and structured reports presented to client stakeholders for data-driven decision-making.

KEY PROJECTS

MedSynth – Healthcare Risk Predictor | *Python, SQL, Pandas, NumPy, Scikit-learn, CTGAN, Streamlit* *Oct 2025*

- Engineered end-to-end ML pipeline for multi-morbidity risk prediction achieving 95–99% accuracy; applied SQL-style queries and Pandas/NumPy for structured data cleaning and feature engineering.
- Used CTGAN for synthetic data generation to fix class imbalance; deployed real-time Streamlit dashboard for interpretable clinical decision support.

Fake News Detector | *Python, BERT, HuggingFace, NLP, RAG, Streamlit* *Oct 2025*

- Built fine-tuned BERT model with RAG-style fact-retrieval layer for fake news classification; achieved 90–92% accuracy and reduced false-positive rate by ~15% via iterative model tuning.
- Integrated real-time Streamlit UI with confidence scoring and visual reliability indicators for intuitive end-user assessment.

Sentiment Analysis of Incoming Calls on Helpdesk | *Python, NLP, Speech-to-Text, Matplotlib, Pandas* *Apr– May 2025*

- Built Speech-to-Text + NLP pipeline analyzing 250+ call recordings with 90%+ sentiment accuracy; created supervisor dashboard reducing response time by 30%. Published in a peer-reviewed journal (Dec 2024).

EDUCATION | PUBLICATION

B.Tech, CSE (AIML) — GPA: 7.72 | Vignans Institute of Management and Technology for Women, *2021 – 2025*
Coursework: Python, SQL, AI, ML, Deep Learning, NLP, Data Structures & Algorithms, ML Libraries & Frameworks
Publication: "Sentiment Analysis of Incoming Calls on HelpDesk" — Journal of Information Systems Engineering and Management, Dec 2024