Samiksha Sai Thogeti

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EDUCATION

Institute of Aeronautical Engineering, Hyderabad, India *Expected graduation: Aug 2027*
B.Tech in Computer Science and Engineering (Artificial Intelligence and Machine Learning) GPA: 8.06/10
Narayana Junior College, Hyderabad *June 2023*
Intermediate GPA: 8.9/10
Vikas The Concept School, Bachupally, Hyderabad *March 2020*
CBSE GPA: 9.1/10

TECHNICAL SKILLS

Programming Languages: Python, Java
AI / ML Frameworks: TensorFlow, PyTorch, Scikit-learn, Hugging Face
AI Agent Frameworks: OpenAI Agents SDK, Crew AI, LangGraph, LangSmith, LangChain, AutoGen, MCP
Tools & Libraries: Pandas, NumPy, Matplotlib, OpenCV, Streamlit, Gradio, Git, GitHub, Docker, Kubernetes, Jenkins
Front-End: HTML, CSS, React.js, Tailwind CSS
Back-End: Flask, PHP, Node.js, REST APIs
Databases: MySQL, MongoDB
Cloud / DevOps: Docker, Kubernetes, Jenkins, GCP

INTERNSHIPS

Central Institute of Tool Design (MSME TC, Hyderabad) *Jun 2025*
Deep Learning Intern — Stock Price Prediction using LSTM

- Built an LSTM model with Keras to predict stock prices for companies like Reliance, Tata Steel, HDFC Bank, and Infosys.
- Analyzed time-series data using moving averages and trend visualization.
- Used dropout layers and tuning methods to reduce error and improve model accuracy.

Swecha Telangana *Aug 2024*
Machine Learning Intern — Telugu OCR System

- Trained deep learning models for recognizing Telugu characters using custom datasets.
- Created pipelines for Unicode text conversion and improved processing speed on GPUs.
- Generated readable Telugu text outputs in HTML format with good recognition accuracy.

PROJECTS

ResumeAgent — Personal Résumé Q&A Agent (Hugging Face) *Sep 2025*

- Built an AI agent that interprets my résumé, skills, and project experience to answer context-aware career and technical questions.
- Leveraged **Gradio** for a responsive conversational interface, **PyPDF** to parse résumé content, and **Pushover API** to send real-time query notifications.
- Deployed securely on **Hugging Face**, managing sensitive API keys and environment variables with **dotenv**.
- Implemented a feedback loop to log unknown questions and user interactions, enabling continuous improvement of the agent's responses.

LearnSphere — Intelligent Study Companion (GitHub) *Jun 2025*

- Developed an adaptive learning assistant to generate notes, quizzes, flashcards, and mind maps, enhancing personalized learning experiences using **Retrieval-Augmented Generation (RAG)** and **OpenAI APIs**.
- Integrated **FAISS** for semantic search across multi-format documents (PDF, DOCX, TXT), enabling fast retrieval of contextually relevant information.

- Built an interactive **Streamlit** interface allowing real-time exploration of learning content and dynamic engagement for users.

AnimeSense — Hybrid Anime Recommendation Engine (GitHub)   *Mar 2025*

- Built a hybrid recommendation system combining **TensorFlow/Keras embeddings** for collaborative filtering with content-based metadata analysis to deliver highly personalized anime suggestions.
- Developed a **Flask** web service, containerized with **Docker**, deployed on **GCP (GKE)**, and integrated with **Jenkins CI/CD** for automated, scalable deployment.
- Utilized **DVC + Comet ML** for experiment tracking, reproducibility, and model versioning, ensuring maintainable and consistent model updates.
- Reached **MAE: 0.38**, **MSE: 0.18**, with train and validation loss close (**0.74/0.75**), showing the model made accurate and consistent predictions for different users.

OptiStay — Hotel Cancellation Prediction System (GitHub)   *Oct 2024*

- Built a predictive analytics platform using **Flask** and ML models (**Logistic Regression, Random Forest, XGBoost**) to forecast hotel booking cancellations and optimize operational planning.
- Constructed a complete data pipeline covering preprocessing, feature engineering, model training, evaluation, and hyperparameter tuning to ensure robust predictions.
- Containerized the system with **Docker**, deployed on **GCP Cloud Run**, and automated CI/CD using **Jenkins** for scalable and reliable delivery.
- Achieved an **Accuracy of 89.02%**, **Precision of 88.76%**, **Recall of 89.54%**, and **F1-Score of 89.15%** on validation data.

CERTIFICATES

Agentic AI Course	-Hugging Face	*Jun 2025*
Machine Learning	-NPTEL	*May 2025*
Data Structures and Algorithms	-NPTEL	*Apr 2025*
Prompt Engineering for Everyone	-IBM / Cognitive Class	*Aug 2024*
Reinforcement Learning and		
Deep Learning Essentials	-IBM / Cognitive Class	*Jul 2024*
Intro to Machine Learning	-Kaggle	*Mar 2024*

CODING PROFILES

LeetCode: Solved 150+ DSA and SQL problems
GeeksforGeeks: Solved 60+ DSA problems

e-PORTFOLIOS

GitHub: github.com/SAMI-CODEAI