

Ariga Sai Charan Reddy

+91-9182888149 | arigasaicharan@gmail.com | linkedin.com/in/arigasaicharan | github.com/arigasaicharanreddy

SUMMARY

Data Scientist / AI-ML Engineer (B.Tech CSE, AI & ML, 2026) with a foundation in statistics and machine learning, building end-to-end predictive pipelines in Python and SQL, from data synthesis and imputation to model evaluation and deployed prediction APIs. Built a HistGradientBoosting model reaching 99.54% accuracy on a 12,000-record dataset synthesized from 15+ peer-reviewed studies, and presented the research at an international conference (2026). Developing depth in time-series forecasting. AWS Certified AI Practitioner.

TECHNICAL SKILLS

Languages & Data: Python, SQL, R, NumPy, Pandas, matplotlib, Exploratory Data Analysis, Data Cleaning, MICE Imputation, Power BI, Tableau, Excel

Machine Learning (hands-on): scikit-learn, XGBoost, HistGradientBoosting, Random Forest, Logistic Regression, MLP, Feature Engineering, Hyperparameter Tuning, Model Comparison & Evaluation

MLOps & Deployment: Flask, FastAPI, Docker, LangSmith (tracing/alerting), Streamlit Cloud, AWS (SageMaker Canvas)

GenAI & NLP: LangChain, RAG, ChromaDB, LLMs, NLTK, Sentiment Analysis

Learning / working knowledge: Time-series forecasting (ARIMA, SARIMA, ETS, Prophet), LSTM, PyTorch, TensorFlow, MLflow, DVC, CI/CD, LightGBM, CatBoost, SVMs

PROJECTS

COVID-19 Infant Growth Analysis and Prediction | [GitHub](#)

Oct 2025 – Dec 2026

Python, Pandas, scikit-learn, HistGradientBoosting, XGBoost, MLP, Flask

- Synthesized a 12,000-record developmental dataset by consolidating data from 15+ peer-reviewed research studies across diverse infant growth indicators.
- Built an end-to-end ML pipeline (MICE imputation, feature engineering, model evaluation) that reduced missing-data handling effort by 40% versus baseline approaches.
- Achieved 99.54% accuracy with HistGradientBoosting; identified speech score as the top predictor via XGBoost feature-importance analysis.
- Deployed a Flask web app for real-time prediction with sub-200ms response time.
- Presented at the 10th International Halich Congress on Multidisciplinary Scientific Research (Istanbul, online), May 2026; awarded a Certificate of Participation.

SmartCareerForge – AI Career Guidance Platform (AI/ML Engineer) | [GitHub](#) |

Live App

Jan 2026 – May 2026

Python, Streamlit, SQLite, LangChain, RAG, LangSmith, Docker

- Led AI/ML engineering of a 15-module career platform: resume scoring, ATS analysis, and skill-gap detection using multi-method matching (exact, alias, token overlap, semantic search) across 60+ skill mappings.
- Achieved 100% LLM call tracing with LangSmith; deployed with Docker, latency and error alerting, and SQLite usage analytics.

EXPERIENCE

Data Analyst Intern — Internship Studio

Feb 2026 – Mar 2026

Python, scikit-learn, Power BI, Tableau, FastAPI, SQL

- Built predictive retail-sales models in Python/scikit-learn, reaching 86% accuracy across model comparisons, and deployed them as a live FastAPI REST service for real-time predictions.
- Engineered end-to-end pipelines (preprocessing, feature engineering, evaluation), cutting data prep time by ~30%; built Power BI/Tableau dashboards that reduced manual reporting time by ~25%.

Artificial Intelligence Intern — AMG Technologies LLP

Aug 2025 – Oct 2025

- Designed and deployed 3 end-to-end ML pipelines (preprocessing, hyperparameter tuning, cloud deployment), cutting model evaluation turnaround by ~30%.
- Built NLP sentiment pipelines on Amazon review data: 97.69% (Random Forest) and 95.36% (Logistic Regression); ranked top 10% of the intern cohort and received a Letter of Recommendation.

EDUCATION

VIT-AP University, Amaravati — B.Tech, Computer Science and Engineering (AI & ML)

CGPA: 7.9

2022 – 2026

CERTIFICATIONS

- AWS Certified AI Practitioner (2025), score 933/1000
- Oracle Generative AI Professional Certification (2025), score 86/100
- Deloitte Australia – Data Analytics Job Simulation (2026)