**Surya Theja Devera Konda**

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**SUMMARY**

Machine Learning Engineer (Python) with 3+ years of experience delivering secure, high‑quality ML systems from concept to production.

Hands‑on across the full lifecycle—data ingestion, feature engineering, model training, evaluation, deployment, and monitoring.

Strong with PyTorch, TensorFlow, scikit‑learn, XGBoost/LightGBM, and MLOps on AWS/Azure (Docker, Kubernetes, CI/CD).

Active Kaggle competitor with multiple top‑percentile finishes demonstrating rigorous cross‑validation, leakage checks, calibration, and ensembling.

Open to relocation within the U.S.

**CORE SKILLS**

* Languages & Libraries: Python (OOP, decorators, generators, context managers), pandas, NumPy, scikit‑learn, PyTorch, TensorFlow, XGBoost, LightGBM
* MLOps & Cloud: AWS, Azure, Docker, Kubernetes, CI/CD, model monitoring, A/B testing
* Data & Storage: SQL, ETL, feature stores, vector search (FAISS/Pinecone/Milvus)
* LLM/RAG: Transformers, Hugging Face, LangChain; prompt engineering, retrieval and evaluation
* Methods: Time‑series forecasting, gradient boosting, CV strategies (GroupKFold, expanding windows), calibration (Platt/Isotonic), ensembling (stacking/blending), drift detection
* Practices: Secure coding, code reviews, Agile/Scrum, documentation, reproducibility

**PROFESSIONAL EXPERIENCE**

**Capital One — Python & Machine Learning Engineer | Jun 2024 – Present**

* Designed and deployed fraud‑detection and NLP classification models (TensorFlow, scikit‑learn), improving precision/recall trade‑off to raise overall accuracy by 15%.
* Built automated feature engineering and data‑validation pipelines that cut preprocessing time 30% and reduced data‑quality incidents by 40%.
* Integrated models into production microservices/APIs with 99.5% uptime, processing 2M+ requests/day; added monitoring and alerts for drift and SLA breaches.
* Partnered with product and risk to translate requirements into measurable ML objectives, accelerating cycle time from idea to production by 25%.

**Sabre Corporation — Machine Learning Engineer | Jun 2023 – Apr 2024**

* Developed time‑series demand forecasting models (PyTorch, scikit‑learn) that improved pricing accuracy by 18% for travel products across major routes.
* Engineered features from multi‑source, high‑volume datasets, boosting model performance by 20% and enabling faster A/B iteration.
* Containerized and deployed on AWS with Docker/Kubernetes for reliable, real‑time inference at 100M+ transactions annually; implemented blue/green rollouts.
* Applied optimization techniques to align forecasts with revenue targets, contributing to measurable margin lift in pilot markets.

**Infosys — Machine Learning Engineer | Jul 2021 – Jul 2022**

* Built predictive analytics for healthcare workflows, increasing operational efficiency by 25% and improving clinical‑risk recall by 10%.
* Created ETL workflows and feature pipelines over large patient/event data; enforced schema checks and secure PHI handling (HIPAA‑aware preprocessing).
* Deployed cloud‑hosted ML services with automated tests and CI/CD; wrote internal runbooks and documentation adopted by 3 teams.

**SELECTED PROJECTS**

**Fraud Detection Model Pipeline (Python, TensorFlow, Azure) — 2024**

* End‑to‑end pipeline: ingestion → feature engineering → training → deployment on AKS; added monitoring for performance and drift with retraining triggers.

**Travel Demand Forecasting (PyTorch, AWS, scikit‑learn) — 2023**

* Forecasting models integrated with booking systems; iterative feature engineering reduced forecast error by 12% and enabled price‑sensitivity tests.

**Healthcare Predictive Analytics (TensorFlow, GCP, SQL) — 2022**

* Patient risk scoring with secure preprocessing; targeted feature selection improved recall by 10% without sacrificing precision.

**KAGGLE COMPETITIONS & RANKINGS (as of October 24, 2025)**

* Digit Recognizer — Rank 60/936 (top 6.4%); built CNN and gradient‑boosting baselines with calibrated, blended predictions.
* Spaceship Titanic — Rank 169/1634 (top 10.3%); leakage‑safe GroupKFold, stacked tree models, probability calibration, and threshold search.
* Titanic — ULima Edition — Rank 12/91 (top 13.2%); feature crosses and robust CV for stable generalization.
* Predicting Road Accident Risk (Playground S5E10) — Rank 742/3071 (top 24.2%); time‑aware validation, gradient boosting with feature‑importance audits.

**EDUCATION**

Southern Arkansas University — M.S., Computer Science | Aug 2022 – May 2024

Osmania University — B.S., Computer Science | Aug 2016 – May 2021

**CERTIFICATIONS**

* Supervised Machine Learning: Regression and Classification — Coursera/Stanford
* Advanced Learning Algorithms — Coursera/Stanford
* Python Programming — NxtWave
* Database (SQL) — NxtWave

**ADDITIONAL**

* Work Authorization: F‑1 OPT (U.S.); Open to relocation.
* Git/Code Quality: unit tests, linting/formatting, typed interfaces, reproducible environments.