SAKETH SARIDENA

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EDUCATION

University of Colorado Boulder, Boulder, CO | M.S. Data Science, GPA: 4.0/4.0 — Aug 2023 – May 2025

Coursework: Machine Learning, Neural Networks, Deep Learning, Big Data Architecture, Statistical Methods, Data Mining

Vellore Institute of Technology, India | B.Tech Computer Science (Data Analytics), GPA: 9.07/10 — Jul 2019 – May 2023

TECHNICAL SKILLS

Languages: Python, SQL, R, Java, MATLAB, JavaScript, Git, Bash

ML/AI Frameworks: PyTorch, TensorFlow, Scikit-learn, Keras, Hugging Face, LangChain, XGBoost, NLP, Computer Vision, OpenCV

LLMs & GenAI: GPT-4, LLaMA, Mistral, Falcon, Ollama, Groq, Prompt Engineering, RAG, Fine-tuning, BERT, YOLO

Data & Cloud: AWS (S3, EC2, SageMaker), Azure Databricks, Snowflake, Hadoop, Docker, Kubernetes, MLOps, ETL, CI/CD

BI & Analytics: SAP Analytics Cloud, Tableau, Power BI, Advanced Excel, Streamlit, Google Analytics, A/B Testing

EXPERIENCE

Data Science Consultant | Applexus Technologies, Federal Way, WA — Nov 2025 – Present

- Engineered an AI-powered EDA platform using Python, Node.js, and Electron, integrating 50+ statistical tests, local LLM interpretation (Ollama), and automated PPTX/PDF reporting, reducing client EDA cycle time by 95% and increasing project capacity by 200%
- Collaborated cross-functionally with business and engineering teams to assess AI/ML feasibility for 10+ enterprise use cases, performing feature engineering and ML readiness evaluation using Isolation Forest and PCA, reducing project scoping time by 80%
- Developed spend analytics and demand forecasting frameworks using Azure Databricks and SAP Analytics Cloud, designing ETL pipelines and predictive models for procurement and inventory optimization, targeting 15-20% cost savings

Data Analysis Intern | Eco Servants Project, Remote, USA — Jun 2025 – Nov 2025

- Developed Sponsorship Data Analysis Framework transforming partnership data into actionable insights, increasing partner identification by 40% and improving donor targeting accuracy by 35%
- Built Blog Topic and Audience Research Report using SEO and Google Analytics, guiding content strategy and supporting Google Ads campaigns that improved audience reach by 50%

Data Scientist (Capstone) | Honda Research Institute USA, Remote, USA — Jan 2025 – May 2025

- Built and deployed AI-powered data preprocessing pipeline using GPT-4, Python and MLOps best practices to automate data transformation, missing value imputation, and anomaly detection, reducing manual effort by 60%
- Evaluated LLMs (GPT-4, Mistral 7B, Falcon 7B, LLaMA 3) for structured response generation, performing feature engineering and statistical benchmarking to improve data quality and processing accuracy by 30%
- Designed interactive visualization system integrating Groq's Mixtral-8x7b for UI-driven insights and exploratory data analysis, achieving 50% improvement in dashboard efficiency

Data Scientist | Pucho Digital Health Inc., Remote, India — Dec 2022 – Apr 2023

- Redesigned ResNet50 architecture with additional residual blocks and hyperparameter tuning, launching model to production with 4% increase in diagnostic precision and 15% boost in COVID-19 detection accuracy
- Implemented NLP-based noise reduction using spectral subtraction with MFCC, achieving 85% production success rate and 20% model performance improvement

Data Science Research Intern | AI & Robotics Center, VIT-AP University, India — Jun 2021 – Dec 2022

- Authored patent (Ref. 202341042839) for intelligent traffic control system using deep learning and reinforcement learning to optimize traffic flow and prioritize emergency vehicles
- Built UAV-based aquaculture monitoring system using YOLOv5 and computer vision, achieving 84% accuracy; presented AI research at PVSEC-31 with 99.3% prediction accuracy

PROJECTS

Amazon Review Sentiment Analyzer | Python, React, Flask, NLP, BERT, VADER — Aug 2024 – Dec 2024

- Led team of 3 to build full-stack NLP sentiment analysis platform using hybrid VADER + BERT model, enabling 60% faster product evaluation through LLM-generated review summaries

Renewable Energy Production Forecast | Python, SVM, Tableau, REST APIs, Feature Engineering — Jan 2024 – May 2024

- Built SVM regressor with feature engineering to forecast U.S. solar, wind, and hydro energy production through 2034, improving prediction accuracy by 20% and reducing RMSE by 8%

PUBLICATIONS & PATENTS

- **Patent:** Intelligent Traffic Control System (Ref. 202341042839), Indian Patent Office
- **IEEE Publication:** Automated Monitoring System for Healthier Aquaculture Farming, ACCAI-2023
- **Conference:** AI Algorithms for Perovskite Solar Cells Fabrication, PVSEC-31