

Paritosh Kiran Gandre | Data Scientist

Kent, OH | +1 330 554 8445 | paritoshkrcg@gmail.com | Portfolio | Github | LinkedIn

Education

Kent State University

Aug 2023 – May 2025

Master's of Science, Data Science, Cumulative GPA: 3.4/4.0

Kent, OH

Relevant coursework: Artificial Intelligence (TensorFlow, PyTorch, Keras), Statistical Learning, Applied & Computational Statistics

Technical Skills

- **Languages:** Python, R, SQL
- **ML & AI:** scikit-learn, TensorFlow, PyTorch, LLMs, Model Interpretability (SHAP)
- **Data Engineering & Cloud:** AWS (S3, EC2, Lambda), Airflow, Docker, Terraform (basic), CI/CD
- **Visualization & Analytics:** Power BI, Tableau, matplotlib, seaborn, Excel (VBA)

Experience

Research Assistant – Deep Learning for Genomic Data Analysis

Feb 2025 – May 2025

Kent State University

Kent, OH

- Engineered a CNN-based DNA classifier, achieving a 7% increase in classification accuracy compared to existing Hidden Markov Model baselines
- Reduced model training time by 15% through optimized CNN training and balanced data handling
- Automated Dockerized ETL pipelines, cutting preprocessing effort by 80% using Python, pandas, NumPy, and TensorFlow/Keras

Data Analyst – Supply Chain

Jan 2025 – May 2025

Kent State University

Kent, OH

- Forecasted ingredient demand using ARIMA, cutting over-purchasing by 15% (\$10K savings)
- Automated SQL-to-Power BI pipeline with AWS S3 integration, reducing reporting latency by 30%
- Conducted A/B testing for procurement strategies, improving cost-forecast reliability

Data Scientist – AI Engineering

May 2024 – Dec 2024

Inke (SafeSpace)

Orlando, FL

- Spearheaded the design of recommendation algorithms utilizing collaborative filtering, achieving a measurable 10% increase in click-through rates on product recommendations within the first quarter of implementation
- Deployed Airflow-based retraining pipelines on AWS EC2, improving deployment reliability by 30%
- Optimized Django REST APIs using Docker, reducing response latency by 30%

Operations Data Analyst (Catering Analytics Associate)

Apr 2024 – Dec 2024

Kent State University

Kent, OH

- Analyzed 15K+ POS and inventory records using pandas and Hadoop to optimize procurement, reducing food costs by 12% (\$4.8K savings)
- Developed Power BI/Tableau dashboards to visualize KPIs, accelerating decision-making by 30%
- Automated Excel/VBA reporting processes, cutting manual reporting time by 25%

Projects

iPSC Differentiation Outcome Predictor GitHub | Live App

Oct 2025

- Automated iPSC differentiation outcome predictions (Purity, Viability, Yield) using a Streamlit application and machine learning models; this enabled streamlined experiment design and increased throughput by 12 more samples
- Trained multiple ML models (Random Forest, XGBoost, TabNet, MLP); Random Forest achieved $R^2 = 0.87$, MAE = 1.55
- Designed SHAP-ready interpretability layer enabling transparent biological insights and protocol optimization

Revenue Risk Radar – Customer Churn Prediction & Monitoring GitHub | Live App

Oct 2025

- Developed an end-to-end churn and revenue-at-risk prediction system using LightGBM (AUC = 0.85, PR-AUC = 0.66)
- Engineered automated workflows for ETL, training, scoring, and monitoring using Prefect, leading to a 60% decrease in the frequency of model retraining cycles

Healthcare Monitoring Dashboard GitHub

Jan 2025 – May 2025

- Developed FastAPI + Dash system predicting heart and diabetes risk on synthetic EHR data
- Integrated Power BI dashboards and ML pipelines (Linear Regression, XGBoost) with live visualization

Certifications

- AWS Cloud Technical Essentials – Amazon Web Services
- Building Computer Vision Applications with Python
- Data Analysis with R Programming (Google)
- GenAI with Diffusion Models (NVIDIA)

Oct 2025

Jul 2025

Nov 2024

Oct 2024