Paritosh Kiran Gandre | Data Scientist

+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
- **Machine Learning:** scikit-learn, TensorFlow, PyTorch, XGBoost, Bayesian Modeling, HMMs, CNNs, Cross-Validation
- **Data Engineering:** ETL Pipelines, Airflow, Docker, AWS (S3, EC2, Lambda), Hadoop
- **Model Deployment & Tools:** CI/CD (GitHub Actions), MLflow, Prefect, Flask/Django APIs
- **Visualization:** Power BI, Tableau, matplotlib, seaborn, Excel (Power Query, Pivot Tables, VBA)
- **Healthcare Data:** HL7/FHIR schema awareness, MedlinePlus knowledge base, HIPAA-aware design

Experience

Research Assistant – Deep Learning for Genomic Data Analysis — Feb 2025 – May 2025
Kent State University, Kent, OH

- Achieved 97% accuracy on 40K DNA sequences using CNN models (TensorFlow/PyTorch) validated via ROC curves and confusion matrices.
- Built reproducible ETL pipelines in Python and Docker, integrating Bayesian modeling for interpretable motif classification in genomic data.

Data Analyst – Supply Chain — Jan 2025 – May 2025
Kent State University, Kent, OH

- Forecasted ingredient demand using ARIMA on 3 years of POS data, reducing over-purchasing by 15% ($10K savings).
- Automated SQL pipelines and AWS S3 integration for Power BI dashboards, cutting report latency by 30%.

Data Scientist – AI Engineering Intern — May 2024 – Dec 2024
Inke (SafeSpace), Orlando, FL

- Built recommendation and sentiment analysis systems (spaCy, NLTK) with 85% accuracy, enhancing engagement for 100K+ users.
- Deployed ML models to AWS EC2 via Airflow-driven CI/CD pipelines, standardizing retraining and improving model reliability by 30%.

Operations Data Analyst (Catering Analytics Associate) — Apr 2024 – Dec 2024
Kent State University Dining Services, Kent, OH

- Analyzed 15K+ POS and inventory records using pandas and Hadoop, reducing food costs by 12%.
- Built Tableau dashboards and Excel/VBA automations that improved reporting efficiency and decision speed by 30%.

Data Scientist — Jan 2022 – Jun 2023
S L Kulkarni Cyril Graphics Pvt. Ltd., Mumbai, India

- Developed predictive maintenance models using IoT sensor data to forecast equipment failures, reducing downtime by 20%.
- Engineered real-time dashboards with Flask and SQL, improving data reliability by 30% and maintenance response time.

Projects

Pose Corrector App (GitHub) — July 2025 – Present

- Developed cross-platform computer-vision app using Mediapipe Pose Estimation and TensorFlow Lite for real-time form correction under 50ms latency.

EchoHealth – A Safe Healthcare Voice Agent (GitHub) — Oct 2025

- Built a voice-enabled healthcare assistant using Python, Flask, and OpenAI Whisper to process medical terminology and patient queries using MedlinePlus as a verified medical knowledge base.
- Implemented speech-to-text and clinical entity recognition (symptoms, medications, diagnoses) aligned with HL7/FHIR schema awareness for safe conversational triage and health information retrieval.

iPSC Differentiation Predictor (GitHub) — Oct 2025

- Predicted stem-cell differentiation outcomes using Gradient Boosting and Random Forest models with SHAP interpretability.
- Achieved >85% balanced accuracy on gene expression datasets with PCA-based dimensionality reduction.

Certifications

- AWS Cloud Technical Essentials – Amazon Web Services — Oct 2025
- Biology Meets Programming, UC-San Diego(UCSD) — Aug 2025
- Building Computer Vision Applications with Python — Jul 2025
- Data Analysis with R Programming (Google) — Nov 2024
- GenAI with Diffusion Models (NVIDIA) — Oct 2024