Paritosh Kiran Gandre | Data Scientist

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Experience

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

- Drove **97%** CNN accuracy on **40K** DNA sequences by curating datasets and tuning convolutional blocks in TensorFlow/PyTorch, validated with ROC–AUC and F1
- Cut manual data handling by **80%** by building Dockerized **ETL** pipelines (pandas/Dask), versioned data with DVC, and tracked runs in **MLflow**
- Increased interpretability by combining **Bayesian modeling** with saliency maps to surface motif importance, enabling research review and reproducibility

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

- Reduced over-purchasing **15%** ($10K) by shipping **ARIMA/SARIMAX** demand models on 3 years of POS & inventory and monitoring MAPE and bias
- Cut report latency **30%** by automating SQL extracts and **AWS S3** ingestion feeding **Power BI** dashboards with refresh schedules
- Improved forecast reliability via **A/B testing** of procurement rules, tightening variance and exception rates used by stakeholders

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

- Increased deployment reliability **30%** by orchestrating model training & release via **Airflow CI/CD** on **AWS EC2**, serving **100K+** daily requests
- Improved API p95 latency **30%** by profiling **Django** endpoints, optimizing containers, and tuning VPC networking
- Standardized retraining with **MLflow Model Registry** and feature versioning, reducing drift incidents and rollback time

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

- Lowered food costs **12%** by analyzing **15K+** POS/inventory rows in pandas/Hadoop and flagging waste drivers for procurement action
- Accelerated executive reporting **25–30%** by building **Tableau** dashboards and **Excel/VBA** automations
- Defined KPI suite and alerting that shortened decision cycles by **30%** during weekly reviews

Data Scientist · Jan 2022 – Jun 2023
S L Kulkarni Cyril Graphics Pvt. Ltd. · Mumbai (Remote)

- Cut unplanned downtime **20%** by training **predictive maintenance** models on IoT sensors & logs; deployed anomaly alerts that triggered preventive service
- Built **Flask + SQL** real-time dashboard for machine health, improving response speed and visibility across shifts
- Engineered **ETL** integrating logs, service tickets, and production data to raise data reliability **30%** and enable root-cause analysis

Education

Master's of Science, Data Science, Cumulative GPA: 3.4/4.0 · Aug 2023 – May 2025
Kent State University · 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

Projects

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