

Paritosh Kiran Gandre | Data Scientist

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Education

M.S., Data Science, Kent State University, OH

Aug 2023 – May 2025

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

B.E., Computer Engineering, University of Mumbai

Jul 2020 – Jul 2023

Technical Skills

- **Languages:** Python, R, SQL
- **Machine Learning & AI:** scikit-learn, TensorFlow, PyTorch, LLMs, Prompt Engineering, Cross-Validation, Model Interpretability
- **Data Engineering & Cloud:** AWS (S3, EC2, Lambda, IAM), Airflow, Docker, Terraform (basic), CI/CD (GitHub Actions), Data Modeling, Governance, Lifecycle Management
- **Visualization & Analytics:** Power BI, Tableau, matplotlib, seaborn, Excel (Power Query, Pivot Tables, VBA)
- **Healthcare Data & Compliance:** FHIR, HL7 (basic), HIPAA awareness, Clinical Data Integration
- **Other:** Git, Agile/Scrum, Unit Testing, REST APIs (Django/Flask)

Experience

Research Assistant – Deep Learning for Genomic Data Analysis

Feb 2025 – May 2025

Kent State University, Kent, OH

- Engineered scalable ETL pipelines in Python and Docker to process genomic and clinical-like datasets, reducing manual data handling by 80%
- Achieved 97% classification accuracy on 40 K DNA sequences using CNN models (TensorFlow/PyTorch) validated via ROC curves and confusion matrices
- Applied Bayesian modeling for interpretable motif discovery and aligned findings with biological significance in collaboration with research faculty

Data Scientist – AI Engineering Intern

May 2024 – Dec 2024

Inke (SafeSpace), Orlando, FL

- Deployed AI models to AWS EC2 via Airflow-driven CI/CD pipelines, improving deployment reliability by 30% and standardizing model retraining
- Built recommendation and sentiment analysis systems (spaCy, NLTK) achieving 85% accuracy and enhancing user engagement for 100 K + requests daily
- Optimized Django REST APIs using Docker and AWS networking best practices, reducing latency by 30%
- Collaborated in Agile sprints and code reviews to ensure quality, maintainability, and unit test coverage

Data Analyst – Supply Chain

Jan 2025 – May 2025

Kent State University, Kent, OH

- Forecasted ingredient demand using ARIMA models on 3 years of POS data, reducing over-purchasing by 15% (\$10 K savings)
- Automated SQL extractions and AWS S3 integration for Power BI dashboards, cutting report latency by 30%
- Applied A/B testing for procurement strategies, improving forecast reliability and cost variance control

Operations Data Analyst (Catering Analytics Associate)

Apr 2024 – Dec 2024

Kent State University Dining Services, Kent, OH

- Analyzed 15 K + POS and inventory records using pandas and Hadoop to optimize procurement, reducing food costs by 12% (\$4,800 savings)
- Developed Power BI/Tableau dashboards for executive KPIs, accelerating decision-making by 30%
- Created Excel/VBA automations reducing report preparation time by 25%

Projects

- **Healthcare Monitoring Dashboard:** Developed FastAPI + Dash platform for predictive heart/diabetes risk assessment using ML models (Linear Regression, XGBoost) and FHIR-structured data; integrated LLM prompt flows for clinical summary generation (GitHub)
- **Genomic Sequence Classifier:** Implemented CNN vs HMM models for DNA motif classification with 97% accuracy (GitHub)
- **AWS 3-Tier Architecture Deployment:** Built and deployed a secure web app architecture (VPC, EC2, RDS, S3, Load Balancer) demonstrating cloud infrastructure automation (GitHub)
- **Infection Spread Simulation (Mesa):** Agent-based model visualizing epidemic spread and intervention impact (GitHub)

Certifications

- AWS Cloud Technical Essentials – Amazon Web Services Oct 2025
- Biology Meets Programming, UC-San Diego(UCSD) Aug 2025
- AWS Educate – Introduction to Generative AI Aug 2025
- Data Analysis with R Programming (Google) Nov 2024
- AWS Academy Graduate – Cloud Foundations May 2023
- AWS Academy Graduate – Data Analytics May 2023