

PARITOSH KIRAN GANDRE

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Education

Master of Science in Data Science, Kent State UniversityAug 2023 – May 2025

Courses: Artificial Intelligence (TensorFlow, PyTorch, Keras), Statistical Learning, Applied Statistics, Computational Statistics

Bachelor of Engineering – Computer Engineering, University of MumbaiJul 2020 – Jul 2023

Work Experience

Research Assistant – Deep Learning for Genomic Data AnalysisFeb 2025 – May 2025

Kent State UniversityKent, Ohio

- Boosted DNA sequence classification accuracy to 97% on 40K samples using CNNs (TensorFlow/PyTorch), outperforming baseline HMM models
- Automated data preprocessing pipelines with Python (pandas, NumPy), reducing manual handling by 80% and enabling Docker-based deployment
- Applied Bayesian modeling for interpretable motif classification and visualized results via confusion matrices and training metrics
- Collaborated with cross-disciplinary researchers to align model outputs with biological significance, improving result adoption in ongoing studies

Data Analyst – Supply ChainJan 2025 – May 2025

Kent State UniversityKent, Ohio

- Reduced ingredient over-purchasing by 15% on a \$10K budget through time-series demand forecasting (ARIMA, Python) using 3 years of POS data
- Automated SQL extractions and integrated data with AWS S3, enabling real-time dashboards for procurement decisions
- Built Power BI dashboards for cost and waste KPIs, improving decision-making speed by 30%
- Introduced A/B testing on procurement strategies, identifying approaches that minimized cost fluctuations and improved forecasting accuracy

Data ScientistMay 2024 – Dec 2024

Inke (SafeSpace)Orlando, FL

- Developed recommendation engine (collaborative filtering, scikit-learn) and sentiment analysis models (spaCy, NLTK) achieving 85% accuracy
- Reduced API latency by 30% via Django REST APIs (Docker, AWS EC2) supporting 100K+ daily interactions
- Automated retraining pipelines with Airflow and implemented CI/CD for production deployments
- Implemented user-behavior analytics to inform product teams, increasing session duration and content relevance

Catering Operations & Analytics AssociateApr 2024 – Dec 2024

Kent State University Dining ServicesKent, Ohio

- Analyzed 15K+ POS and inventory records (pandas, Hadoop), optimizing procurement cycles and cutting food costs by 12% on a \$40K budget
- Delivered weekly Power BI/Tableau dashboards visualizing sales and waste metrics, accelerating executive decision-making by 30%
- Developed VBA-based automation tools in Excel, cutting manual reporting time by 25% for operational teams

Technical Skills

Programming: Python (pandas, NumPy, scikit-learn), SQL (T-SQL), R, VBA
Machine Learning: TensorFlow, PyTorch, NLP, Time-Series, Bayesian Modeling, A/B Testing
Data Engineering: ETL Pipelines, Airflow, Hadoop, Docker, AWS (S3, EC2)
BI & Visualization: Power BI, Tableau, Excel (Power Query, Pivot Tables), Plotly
Collaboration: Git, JIRA, Agile, REST APIs, Django, Flask

Projects

AI-Powered Blog Generator: Automated content creation using GPT-3.5 and Flask, cutting blog cycle time by 70%
Infection Spread Simulation (Mesa): Built agent-based SIR model with real-time visualizations for epidemic impact
Music Genre Classifier: Achieved 90%+ F1 score with PCA-based feature engineering on Spotify datasets

Certifications

Data Analysis with R Programming (Google)Dec 2024

GenAI with Diffusion Models (NVIDIA)Nov 2024