

PARITOSH KIRAN GANDRE

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Education

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| M.S., Data Science Kent State University, OH <i>Relevant coursework:</i> Artificial Intelligence (TensorFlow, PyTorch, Keras), Statistical Learning, Applied & Computational Statistics | Aug 2023 – May 2025 |
| B.E., Computer Engineering University of Mumbai | Jul 2020 – Jul 2023 |

Technical Skills

Languages: Python, SQL, R
ML/AI: scikit-learn, TensorFlow, PyTorch, NLP, Time Series (ARIMA), Bayesian Modeling, Cross-Validation, Hyperparameter Tuning
Data: Pandas, NumPy, ETL, Data Cleaning, Data Visualization, Experiment Design, A/B Testing
Platforms: AWS (S3, EC2), Docker, Airflow, Hadoop
BI: Power BI, Tableau, Excel (Power Query, Pivot Tables)
Software: SAS, Git, Agile/Scrum, REST APIs, Django, Flask

Experience

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| Research Assistant – Deep Learning for Genomic Data Analysis Kent State University, Kent, OH <ul style="list-style-type: none">Reached 97% accuracy on 40K DNA sequences using CNNs (TensorFlow/PyTorch), outperforming HMM baseline; conducted model evaluation with confusion matrices and metrics trackingBuilt automated Python ETL pipelines for preprocessing; Dockerized workflows to ensure reproducibility and reduce manual handling by 80%Applied Bayesian modeling for interpretable motif classification and aligned results with biological significance in collaboration with domain researchers | Feb 2025 – May 2025 |
| Data Analyst – Supply Chain Kent State University, Kent, OH <ul style="list-style-type: none">Reduced ingredient over-purchasing by 15% (a \$10K savings) using ARIMA demand forecasting and statistical modeling techniques on 3 years of POS dataAutomated SQL Data extractions and integrated with AWS S3; built real-time Power BI dashboards improving decision speed by 30%Ran A/B tests to compare procurement strategies; reduced cost variance and improved forecast accuracy | Jan 2025 – May 2025 |
| Data Scientist Inke (SafeSpace), Orlando, FL <ul style="list-style-type: none">Built a recommendation system using collaborative filtering and machine learning techniques, and performed sentiment analysis (spaCy, NLTK) achieving 85% accuracy; delivered actionable insights to product teams, optimizing user engagementOptimized Django REST APIs on AWS EC2 with Docker; reduced latency by 30% for 100K+ daily requestsImplemented Airflow pipelines and CI/CD for production model retraining and deployment | May 2024 – Dec 2024 |
| Catering Operations & Analytics Associate Kent State University Dining Services, Kent, OH <ul style="list-style-type: none">Developed and implemented data-driven strategies to optimize procurement cycles, resulting in a 12% reduction in food costs (\$4,800 savings) on a \$40K budget by analyzing 15K+ POS and inventory records using pandas and HadoopDeveloped and implemented Power BI/Tableau dashboards to visualize key sales and waste KPIs, resulting in 30% faster executive decision-making and improved operational efficiencyDeveloped Excel/VBA automations reducing reporting time by 25% | Apr 2024 – Dec 2024 |

Projects

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| <ul style="list-style-type: none">AI-Powered Blog Generator: Automated blog generation using GPT-3.5 + Flask; reduced content cycle time by 70%Infection Spread Simulation (Mesa): Agent-based epidemic model with live visualizationMusic Genre Classifier: 90%+ F1 score via PCA-based feature engineering on Spotify dataset | |
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Certifications

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| Biology Meets Programming, UC-San Diego(UCSD) | Aug 2025 |
| AWS Educate – Introduction to Generative AI | 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 |
| AWS Academy Graduate – Cloud Foundations | May 2023 |
| AWS Academy Graduate – Data Analytics | May 2023 |