Tejas Khandwekar

Atlanta, GA 30363 | (404) 396-9196 | khandwekar.t@gmail.com | linkedin.com/in/tejas-khandwekar

EDUCATION

Georgia Institute of Technology Aug 2025 - Dec 2026
Master of Science, Analytics *Atlanta*
Coursework: Machine Learning, Data Visualization and Analytics, Business Fundamentals, Analytical Modeling

Visvesvaraya National Institute of Technology Jul 2018 - Jul 2022
Bachelor of Technology, Mechanical Engineering (GPA: 9.21/10) *India*
Coursework**:** Machine Learning for Engineers, Numerical Methods, Machine Vision

SKILLS

Programming & Tools: Python, R, SQL, Power BI, Excel
Machine Learning & AI: Machine Learning, Statistical Analysis, A/B Testing, Hypothesis Testing, Time Series Analysis, Forecasting, Demand Forecasting, Customer Segmentation, Supply Chain Analytics, Natural Language Processing (NLP), LLMs, GenAI, RAG, Anomaly Detection, Deep Learning, Computer Vision, CNNs, TensorFlow, PyTorch, Spark, Hadoop
Cloud & Platforms: Docker, DataBricks, Azure, AWS

EXPERIENCE

ExxonMobil | *Data Scientist* Jul 2022 - Jun 2025

- Co-developed a global demand-forecasting pipeline for thousands of SKUs, addressing data gaps with ensemble models tailored to clusters and validated through demand-planner feedback and backtesting experiments to ensure statistical robustness; improved forecast accuracy by 10% over vendor solutions, saving $50M in working capital and improving service level.
- Developed statistical forecasting models for price predictions, achieving 72% directional accuracy at 3-month horizons; designed a custom loss function to minimize direction loss, enabling $2M/year financial savings in trading and capacity planning.
- Built Dockerized customer segmentation models on 2M+ transaction records using RFM clustering; conducted A/B and hypothesis testing in field trials to validate impact, driving a 5% upsell conversion lift, generating $1.3M in incremental annual revenue, and cutting analysis cycle time from months to hours.
- Automated fee calculation for over 100 digitized contracts and thousands of invoices using AWS Textract and a Bedrock-powered GenAI calculator with RAG for attribute extraction to reconcile contracts and invoices.
- Integrated GenAI calculator with Glue ETL workflows, identifying invoice discrepancies and delivering $2.9M in savings.
- Built a contract analysis dashboard using regex and a BERT model to flag contract discrepancies. The dashboard applied pattern matching algorithms and risk scoring for contracts to ensure standardization.
- Created an information management tool using Power BI and SharePoint lists to organize deliverables and improve accessibility of information, storing and displaying data on a project information portal written in TypeScript.

PROJECTS

Unsupervised Detection of Critical Near Miss Events in Urban and Highway Driving – Ford Aug 2025 - Present

- Engineering unsupervised learning pipelines on 1Hz vehicle telemetry to detect near-miss collisions, quantify Time-to-Collision (TTC) events, and optimize insurance premium decisions.
- Processed millions of telemetry points, applying large-scale exploration and anomaly detection to surface near-miss patterns.

iETS Models for Pharmaceutical Intermittent Demand Forecasting (GitHub) Jun 2024 - Jul 2025

- Designed experiments to test intermittent state space (iETS) models for 8 pharmaceutical products in long-horizon forecasts.
- Enhanced forecast accuracy by ~15% for irregular retail sales by applying R's smooth package, outperforming alternative models.

Comparison of Time Series Foundational Models (NeurIPS 2024 Workshop Submission) Jun 2024 - Jul 2025

- Evaluated foundation models (Chronos, TimeGPT, Moirai) against statistical and ML baselines using a multi-origin forecast.
- Showed that statistical models outperformed foundation models by 36% RMSsE in a robust empirical evaluation framework.

Automated Vibration Classification for Vehicles (GitHub) Jan 2022 - Jul 2022

- Created a 22,000-observation vehicle vibration dataset in MATLAB with ISO standards, assigning comfort scores for ML training.
- Developed a custom 1D ResNet CNN model to classify time-series vibrations, achieving 95% test accuracy.

ACHIEVEMENTS & LEADERSHIP (Links)

- **Runner-Up, Myntra Hacker-Ramp Hackathon:** Developed a CNN-based fashion trend detector using Instagram data.
- **ExxonMobil India Inc Recognition:** Awarded for driving 10% accuracy gains in forecasting by Lead Country Manager.
- **Volunteering:** Recognized for serving as the Recruitment Coordinator for the department and fostering strong industry connections, resulting in successful recruitment outcomes at Visvesvaraya National Institute of Technology.
- **Data Science Day**: Organized and hosted ExxonMobil's Data Science Day with 100+ participants, presenting analytics case studies and leading engaging interactive sessions to promote data-driven culture.

CERTIFICATION (Links)

Supervised Machine Learning (Stanford/DeepLearning.AI), Python Object-Oriented Programming (LinkedIn), Interactive Dashboards with Plotly Dash (Coursera), Agile Development Practices (LinkedIn), Git Essential Training (LinkedIn)