

Jayesh Bhadane

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EXPERIENCE

Skai AI – Machine Learning Engineer

Dec 2025 – Present

- Cut per-case insurance processing time 70-80% across 15+ workflow steps by engineering an Agentic AI platform on Google ADK with Claude after benchmarking frontier models.
- Reduced operator triage time from 20 minutes to under 3 by building a Svelte and FastAPI monitoring interface with real-time workflow visualization.
- Cut agent failure diagnosis time 60% by developing a WebSocket log streaming pipeline bridging agent logs to the backend with sub-second UI updates.
- Secured model access across 6+ isolated agent deployments by containerizing services in Docker and deploying an authenticated reverse proxy on GCP.

Aurora Engineering – Data Scientist

Aug 2024 – Dec 2025

- Reconstructed measurement gaps in NASA's MMS 4D satellite time series data at 86% accuracy on held-out data by building deep learning models trained on ~17M data points.
- Enabled robust training on multidimensional satellite data by developing binary masking strategies that simulated real gap patterns in the MMS dataset.
- Improved baseline interpolation accuracy 25% across 3 target variables by building independent recovery pipelines tuned to each variable's signal.
- Recovered missing values across 32 pitch angle channels by interpolating from physically similar neighboring channels in the MMS dataset.
- Cut processing time from days to under few hours for 5,000+ NASA CDF files by automating acquisition and moments calculation pipelines end-to-end.

C5i – Sr. Data Scientist

Oct 2022 – Aug 2023

- Identified high-value user cohorts across 40+ survey attributes by building behavioral and attitudinal segmentation models in Python on multi-source customer data.
- Achieved a 22% lift in conversion rate among priority segments by validating targeted strategies through A/B testing and structured experiments.
- Increased user engagement by 37% by applying classification, regression, and statistical modeling for key driver analysis to surface growth levers.
- Delivered \$14M in incremental revenue by forecasting user volume with a Prophet model informed by Granger causality to optimize acquisition strategy.
- Generated \$43.5M in incremental revenue by building a Bayesian marketing mix model in PyMC to evaluate channel effectiveness and optimize spend allocation.

C5i – Data Scientist

Oct 2020 – Sep 2022

- Generated 100k+ additional consumer interactions in 3 months by analyzing business metrics through funnel analysis in Python to surface drop-off points.
- Improved targeting accuracy by 28% by leveraging factor analysis across 40+ survey attributes to refine customer segmentation models.
- Surfaced actionable trends across business metrics by performing univariate and multivariate analysis using statistical and visualization techniques.
- Reduced data prep time from 4 hours to under 10 minutes by automating performance reporting in Python with reusable aggregation modules.

EDUCATION

MS, Data Science | *University of Connecticut, Storrs, USA* | GPA: 3.78/4.0

Aug 2023 - Dec 2024

Bachelor of Engineering, Computer Engineering | *University of Mumbai, India* | GPA: 3.0/4.0

July 2016 – Oct 2020

TECHNICAL SKILLS

- **ML & Statistical Skills:** Logistic/Linear Regression, Clustering, GLMs, Decision Trees, Dimensionality Reduction, Deep Learning, Time Series Analysis, Hypothesis Testing, A/B Testing
- **Gen AI & LLMs:** LangChain, LangGraph, LlamaIndex, LiteLLM, Google ADK, Generative AI, NLP, Agentic AI Systems,
- **Languages & Tools:** Python, R, SQL, Spark, Docker, GCP, Azure, AWS, Airflow, Databricks, Tableau, PowerBI, IBM SPSS
- **Frameworks & Libraries:** Pandas, NumPy, Scikit-Learn, XGBoost, TensorFlow, Keras, PyTorch, StatsModels, Matplotlib, Plotly, OpenCV, Rshiny, FastAPI, Svelte