

Morish Bhayani

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Relevant Experience

- Data Science Intern, Costac** 02/2025 – 05/2025 | Baltimore, MD
- Built and evaluated statistical and machine-learning forecasting models on sales time-series data using Python, comparing performance with RMSE, seasonality handling, and interpretability.
 - Developed preprocessing and validation workflows for temporal data, including cleaning, train-test splitting, and consistency checks to improve forecast reliability.
 - Created an end-to-end forecasting workflow from raw sales data to multi-step predictions to support business planning and model selection.
- Management Executive, Map Consulting** 01/2024 – 06/2024 | Mumbai, India
- Analyzed operational and engagement data using SQL and Excel to prepare reports for internal decision-making.
 - Standardized data collection and reporting workflows; trained new team members on data quality and reporting consistency.

Projects

- AI Career Prep — Agentic RAG & Interview Platform** 09/2025 – Present
- Built a full-stack AI platform combining ATS resume matching, an agentic mock interviewer, and RAG-based job ranking using FastAPI and Streamlit.
 - Implemented semantic job retrieval with BGE embeddings and cosine similarity, followed by LLM-based scoring of shortlisted roles.
 - Developed adaptive interview workflows with role-specific rounds, follow-up questions, answer evaluation, and automated preparation reports.
- MetricPulseAI — Agentic KPI Analytics Assistant** 08/2026 – Present
- Built an agentic analytics assistant where an LLM plans tool calls while Python and DuckDB calculate and verify KPI results before generating grounded responses.
 - Implemented dataset profiling, KPI trend analysis, root-cause analysis, anomaly detection, forecasting, and natural-language SQL analytics.
 - Added a modular tool registry, execution pipeline, and visible tool traces to make AI-generated analysis transparent and reproducible.
- Unofficial Guide — RAG Knowledge Assistant** 05/2026 – 06/2026
- Built a retrieval-augmented generation system to answer JHU off-campus housing questions using curated student discussion sources.
 - Chunked 10 source documents and generated embeddings with all-MiniLM-L6-v2 for cosine-similarity retrieval of relevant context.
 - Designed grounded prompts that restrict answers to retrieved evidence, with fallback behavior and source attribution to reduce hallucinations.

SKILLS & ADDITIONAL

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| Programming & Backend
Python, SQL, Git, FastAPI, REST APIs, Flask, Streamlit | AI / LLM Engineering
RAG, Agentic Workflows, Tool Calling, Prompt Engineering, LLM APIs, Embeddings, Vector Search, LLM Evaluation |
| Machine Learning & NLP
Scikit-learn, Hugging Face Transformers, DistilBERT, Classification, Feature Engineering, Time-Series Forecasting, NLP | Data & ML Libraries
Pandas, NumPy, PyTorch, TensorFlow, XGBoost, Sentence-Transformers, spaCy |
| Databases & Cloud
MySQL, DuckDB, Azure, Databricks | Statistics & Evaluation
Hypothesis Testing, Regression Analysis, Cross-Validation, Confusion Matrix, Precision, Recall, F1-score, RMSE |

Education

- Master of Science in Engineering in Data Science, Johns Hopkins University** 08/2024 – 05/2026 | Baltimore, MD
Relevant Courses: Databases, Machine Learning and Artificial Intelligence.
- Bachelor of Technology in Computer Engineering, KJ Somaiya Institute of Technology** 08/2019 – 05/2023 | Mumbai, India
Relevant Courses: Data Structures and Algorithms, Natural Language Processing and Database Management Systems.

Courses & Certifications

- Applications of AI Engineering, CodePath** Honors – Summer 2026
- Microsoft Azure Fundamentals (AZ-900)** 01/2026