

Aishwarya Bhanage

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Seeking full time opportunities starting May 2026

Education

Stony Brook University Masters of Science in Data Science	Stony Brook, NY Aug 2024- May 2026
Sinhgad Institute of Technology and Science Bachelor of Engineering in Computer Engineering	Pune, MH May 2016- May 2020

Experience

Veach & Company <i>Founding Machine Learning Engineer</i>	New York City, NY Jul 2025- Present
<ul style="list-style-type: none">Built semantic retrieval pipelines leveraging vector search (FAISS, OpenAI embeddings) and GPT-4 & Hugging Face Transformers reranking, improving relevance by 15%.Built and deployed a Retrieval-Augmented Generation (RAG) chatbot using FAISS vector search and OpenAI's text-embedding-3-small, automating compliance document queries and reducing manual review time by 10%.Fine-tuned Falcon-7B with LoRA adapters for domain-specific question answering, reducing hallucinations by 22%.	
Accenture Solutions Pvt Ltd <i>Data Analyst (Data Science & Banking Analytics)</i>	Pune, MH Jun 2022 - Oct 2023
<ul style="list-style-type: none">Orchestrated ETL and model retraining workflows using Databricks Workflows and Delta Live Tables (DLT) to automate ingestion, transformation, and validation of user-session and transaction data from the Banking application.Cleaned, transformed, and integrated 1M+ daily web app sessions using PySpark and Databricks SQL, improving data quality and enabling near real-time compliance analytics.Implemented predictive anomaly-detection models (XGBoost, Logistic Regression) with 90% AUC, and optimized feature extraction from behavioral data streams deployed in Kubernetes environments for scalable and reliable execution.Designed and evaluated A/B testing frameworks using t-tests and regression analysis to compare performance of app feature rollouts, ensuring statistically valid experiment outcomes that accelerated deployment by 20%.Visualized KPIs and user journey metrics in Tableau(Certified Desktop Specialist) & Power BI, providing actionable insights to risk and product teams that improved uptime by 15% and enhanced user retention analytics.	

Accenture Solutions Pvt Ltd <i>Associate Data Engineer</i>	Pune, MH Dec 2020 - May 2022
<ul style="list-style-type: none">Optimized SQL queries using joins, CTEs, & Windows functions reducing query latency by 35% for key metrics extraction for dashboards and reports.Created real-time anomaly-monitoring dashboards in Tableau and AppDynamics, shortening incident-response time by 40% and enabling proactive system-health tracking.Partnered with product and engineering teams via Jira and ServiceNow to translate business requirements into technical data models and drive production-ready BI workflows.	

Leadership

Stony Brook University <i>Graduate Student Organization Treasurer</i>	Stony Brook, NY May 2025 - Present
<ul style="list-style-type: none">Managed transparent financial operations for 8,000+ graduate students, compliantly managing five reimbursement lines and led effective budget meetings resulting in a 98% budget approval to provide financial security.	

Skills

Functional Competencies: Machine Learning & NLP Generative AI (LLMs, Transformers, RAG) Semantic Search & Ranking Models Embeddings & Vector Databases (FAISS, Pinecone) A/B Testing & Statistical Analysis Predictive Modeling ETL & Data Orchestration (Databricks Workflows, Delta Live Tables) Data Visualization (Tableau, Power BI) Cross-Functional Collaboration.
Technical Tools: Python (Pandas, Scikit-learn, PyTorch, Hugging Face) SQL PySpark Databricks TensorFlow AWS (S3, SageMaker) Azure Docker Git Snowflake Kubernetes Docker Streamlit.

Projects

Mythology-Based Story Generator & Narrator
<ul style="list-style-type: none">Implemented a retrieval-augmented generation system which used Falcon-7B and E5-base embeddings (PyTorch) to ingest over 5M tokens while achieving 93% accuracy and less than 3% hallucination across 20+ test conditions.
Online retail product recommendation Streamlit application
<ul style="list-style-type: none">Engineered a user-friendly Streamlit web app employing the Apriori algorithm to analyze retail data, identifying key product associations and recommending top 5 products that streamline the shopping experience for users.