

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- Present

Sinhgad Institute of Technology and Science

Bachelor of Engineering in Computer Engineering

Pune, MH

May 2016- May 2020

Experience

Veach & Company

Founding AI/ML Engineer

New York City, NY

Jul 2025- Present

- Employed OpenAI's embedding models through API and **GPT-4 semantic similarity** to develop top-K investor recommendations, **improving matching relevance by 40%**.
- Enhanced investing onboarding more efficient with a new **bulk-import feature** to import multiple investors with a single click, reducing manual work and **saving users 30% time**.
- Developed a **RAG application with chatbot functionality** to scan compliance documents, leveraging **OpenAI's text-embedding-3-small** for vector search enabling accurate extraction from legal documents saving manual review effort from stakeholders.

Accenture Solutions Pvt Ltd

Application Performance Analyst

Pune, MH

Jun 2022 - Oct 2023

- Engineered **fraud and anomaly detection pipelines** for **1M+** daily banking transactions using **PySpark, Databricks, and AWS**, increasing detection accuracy to **95%**.
- Optimized **ETL data pipelines using PySpark and Databricks SQL and SAS** to process banking transaction data, increasing process time by **23%** and allowing for real-time analytics on daily transactions.
- Automated reporting processes and conducted **root cause analysis** of customer activity, improving operational efficiency.
- Created and optimized **SQL queries (CTEs, window functions, materialized views, indexing)** in order to monitor customer activity and decrease reporting latency by **35%**.

Accenture Solutions Pvt Ltd

Associate Software Engineer

Pune, MH

Dec 2020 - May 2022

- Built **A/B testing** pipelines in **Snowflake**, expediting testing and rollout of **6+ product features**.
- Constructed a **hash-based lookup** algorithm in **SQL/Python**, improving query performance for financial datasets by **38%**.
- Formed **data preprocessing** workflows in Python and **Excel VBA** using automated information cleaning for 50% reduction in processing time which positively affected data accuracy for additional analytics.
- Created interactive dashboards in **Tableau(Certified Desktop Specialist)** and **Power BI** connected to **Snowflake** to display visibility into user detail, logins/registrations, transaction flows, and system health KPIs, decreasing reporting time by 30% boosting transparency and supporting GTM decisions..

Leadership

Stony Brook University

Graduate Student Organization Treasurer

Stony Brook, NY

May 2025 - Present

- 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

Programming Languages: Python, R, Java, SQL, JavaScript, HTML, CSS.

Data Science: PySpark, Databricks, Machine Learning, Data Models, Statistics, Business Intelligence, SAS, Hive, ETL Pipelines.

Libraries & Framework: React.js, Node.js, Express.js, Pandas, PyTorch, Tensorflow, Hadoop, Spark.

Databases & Tools: MySQL, PostgreSQL, Snowflake, Oracle, MongoDB, AWS, Docker, Kubernetes, Jenkins, Confluence, Git.

Visualizations & BI: Tableau (**Certified Desktop Specialist**), PowerBI, Google Data Studio, Matplotlib, Seaborn. Looker.

Projects

Mythology-Based Story Generator & Narrator

- 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.
- Skills:** RAG, Falcon-7B, PyTorch, NLTK, Transformers, NLP, LLMs

Avocado Market Analysis- US price & Sales Trends

- Examined 18K+ records of avocado sales in 50+ regions of the US to expose seasonal price shifts, regional discrepancies, and volume oscillations and created visualizations and dashboards focusing on organic price premiums, elasticity of demand, and market conditions for business recommendations driven by data.
- Skills:** Python (Pandas, NumPy, Seaborn, Matplotlib), SQL, Data Visualization, EDA, Statistical Analysis