

Aishwarya Bhanage

✉ aishwaryamahad.bhanage@stonybrook.edu 📞 +19342460445 📍 Stony Brook, New York 🔗 LinkedIn 🐙 GitHub

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

Professional Experience

Veach & Company <i>Founding AI/ML Engineer Intern</i>	New York City, NY Jul 2025- Present
<ul style="list-style-type: none">Designing an AI-driven investor matching engine using GPT-4, Supabase, FastAPI, and React, producing top-K ranked investor recommendations based on semantic similarity of pitch deck, resulting in increasing match relevance scores by 40%.Skills: LangChain, Llamaindex, Pinecone, OpenAI, Transformers (HuggingFace), FAISS, n8n	

Accenture Solutions Pvt Ltd <i>Packaged App Development Analyst</i>	Pune, MH Jun 2022 - Oct 2023
<ul style="list-style-type: none">Engineered predictive anomaly detection models using XGBoost and logistic regression in Python to detect fraudulent behavior in banking transactions, with a 95% accuracy rate, monitoring 1M+ daily records and decreasing false positives by 40%.Optimized ETL data pipelines using PySpark and Databricks SQL to process banking transaction data, increasing process time by 20% and allowing for real-time analytics on 1M+ daily transactions.Incorporated statistical analysis and Python libraries (Pandas, NumPy) to analyze user behavior patterns on Android/iOS to identify usability bottlenecks for performance that resulted in a 25% increase in user journey completion.Led a cross functional analytics team of 4 engineers to rectify issues with data processing bottlenecks using Agile methodologies that delivered 25% additional work features per sprint and decreased project delays by 20%.Created interactive machine learning dashboards in Tableau and Power BI to allow executive-level stakeholders to visualize model performance metrics and KPIs, which minimized reporting time by 30% and allowed data driven decision making.Skills: Python, XGBoost, Logistic Regression, PySpark, MySQL, Tableau, Power BI, Pandas, NumPy, Anomaly Detection, Data Pipelines	

Accenture Solutions Pvt Ltd <i>Associate Software Engineer</i>	Pune, MH Dec 2020 - May 2022
<ul style="list-style-type: none">Constructed A/B testing framework for product launches using Python and SQL, this action accelerated testing cycles, which led to 8 new features being launched.Built a hash-based lookup algorithm in Python to enhance data retrieval from banking databases which also cut query response time to 35% improving real-time service for customers.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.Skills: Python, SQL, Apache Spark, Agile, Excel VBA, Data Engineering, Team Leadership	

Leadership Experience

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: Leadership, Financial Budgeting, Communication, Stakeholder Management, Reporting, Blackbaud	

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

Avocado Market Analysis- US price & Sales Trends
<ul style="list-style-type: none">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

Skills

Programming Languages: Python, R, SQL(MySQL, Databricks SQL, SQLite), Javascript, HTML/CSS, C++, OOPS
Frameworks & Libraries: PySpark, FastAPI, Docker, Git, Scikit-Learn, PyTorch, Pandas, NumPy, NLTK, Seaborn, Keras
Platforms: Snowflake, Oracle, MongoDB, Azure Data Factory, AWS (S3, SageMaker), Teradata, n8n
Specializations: Predictive Modeling, Anomaly Detection, NLP, Statistical Analysis, Feature Engineering
Visulaizations & Tools: Tableau (Certified Tableau Desktop Specialist), Power BI, Matplotlib, ServiceNow, Confluence, JIRA