

Aishwarya Bhanage

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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

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 identify fraudulent banking transactions, achieving 95% accuracy rate while monitoring 1M+ daily records and reducing false positives by 40%.Optimized ETL data pipelines using PySpark and MySQL to process banking transaction data, improving processing speed by 40% and enabling real-time analytics for 1M+ daily transactions.Analyzed user behavior patterns on Android / iOS platforms using statistical analysis and Python libraries (Pandas, NumPy) to identify performance bottlenecks, resulting in 25% improvement in user journey completion rates.Built interactive machine learning dashboards using Tableau and Power BI to visualize model performance metrics and KPIs, reducing executive reporting time by 30% and enabling data-driven decision making for stakeholders.	

Accenture Solutions Pvt Ltd <i>Associate Software Engineer</i>	Pune, MH Dec 2020 - May 2022
<ul style="list-style-type: none">Led a cross-functional analytics team of 4 engineers to resolve critical data processing bottlenecks using Agile methodologies, delivering 25% more features per sprint and reducing project delays by 20%.Developed data processing pipelines using SQL and Apache Spark to handle large-scale datasets, cutting processing time by 40% and enabling efficient A/B testing for product deployments.Created hash-based customer lookup algorithm using Python to optimize data retrieval from banking databases, improving query response time by 35% and supporting real-time customer service operations.Designed data preprocessing workflows using Python and Excel VBA to automate data cleaning processes, reducing manual processing time by 50% and improving data accuracy for downstream analytics.	

Leadership Experience

Stony Brook University <i>Graduate Student Organization Treasurer</i>	Stony Brook, NY May 2025 - Present
<ul style="list-style-type: none">Facilitate budget meeting discussions, provide executive-level finance reports, and manage 5 reimbursement lines while ensuring the Graduate Student Organization's transparent and compliant financial operations per available funding for more than 8000 students.	

Projects

Mythology-Based Story Generator & Narrator
<ul style="list-style-type: none">Built end-to-end RAG system using Falcon-7B model and E5-base embeddings with PyTorch, processing 5M+ tokens from historical texts and achieving 93% precision rate with only 3% hallucination.Implemented NLP preprocessing pipeline using NLTK and Hugging Face transformers to clean and tokenize text data, enabling accurate story generation across 20+ test scenarios.

SummarIQ - Smart summarization for education
<ul style="list-style-type: none">Developed AI-powered summarization system using Whisper and GPT-4 models integrated with Zoom API, automating session analysis and reducing manual summary time by 80%.Created real-time feedback system with MySQL database integration to track session performance and deliver personalized insights to stakeholders.

Crime Trend Data Analysis in R
<ul style="list-style-type: none">Engineered crime prediction model using Random Forest and PCA in R, achieving 0.81 AUC and providing actionable insights for resource allocation decisions.Performed geospatial clustering analysis using K-Means algorithm and visualized results with Leaflet and ggplot2, identifying high-risk areas with 85% accuracy.

Skills

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