Srushti Kamble

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EDUCATION

Master of Science in Data Science August 2023-May 2025
Stevens Institute of Technology, Hoboken, NJ
Related Courses: Statistics, Model Optimization, Data Mining, GPU Computing for finance, Deep Learning
Bachelor of Engineering in Information Technology June 2018-May 2022
G H Raisoni College of Engineering, Nagpur, MH
Related Courses: Data Structures and Algorithms, Cloud Computing, Relational Database System, Operating Systems

EXPERIENCE

TechCiti Software Consulting, Bengaluru, India
Software Engineer Intern-Data July 2021-December 2021

- Led the development of a SQL-driven reporting system, enhancing data quality by 50% while demonstrating strong attention to detail and optimizing algorithms for efficient performance on limited computing resources
- Collaborated with cross-functional teams to standardize data sources and analytical methods, developing reusable models that reduced processing time by 30% and enhanced organization-wide fraud detection capabilities
- Designed and optimized backend architecture to enhance data integrity, reduce query response time by 40%, and support real-time analytics, ensuring data consistency for key operational decision-making
- Constructed ETL pipelines and applied machine learning techniques to enable proactive inventory management, reducing forecasting errors by 25% through intelligent Tableau dashboards for metric monitoring
- Implemented privacy-preserving AI models while conducting advanced analytics, ensuring all findings adhered to regulatory requirements while maintaining algorithm performance on resource-constrained systems

ACADEMIC PROJECTS

Statistical Analysis - Customer Intelligence Platform - GitHub August 2025-September2025

- Performed data extraction, transformation, and cleaning using advanced SQL joins across 100k+ customer records, applied Excel pivot tables for trend analysis of churn distribution and campaign impact to validate business KPIs
- Applied analytics with measurable business outcomes developing churn models (XGBoost, Logistic Regression) achieving data accuracy 0.99 and built CLV pipeline using BG/NBD + Gamma modeling to segment high-value vs. at-risk customers
- Delivered actionable insights for decision support through Streamlit dashboard integrating churn risk predictions, CLV insights, and operational KPIs with interactive visualizations for data-driven customer retention strategies

Natural Language Processing - Dynamic Multilingual Subtitling System - GitHub December 2024-January 2025

- Researched and engineered an ML-powered speech recognition system by implementing advanced models to achieve 95% accuracy, demonstrating critical thinking throughout various project phases from planning to implementation
- Developed computer vision techniques for on-device processing using Python and OpenCV, creating a responsive positioning algorithm that maintained 99.8% readability while supporting strategic priorities
- Achieved 85% ML inference latency reduction through innovative problem-solving and analytical thinking, contributing to the design, development, and successful completion of project deliverables

AI Application – Mental Health Support Chatbot - GitHub July 2024-October 2024

- Implemented Conversational AI techniques to develop a human-like dialogue system, achieving 92% user satisfaction by applying advanced Natural Language Processing and deep learning methodologies
- Improved response accuracy by 85% as measured by model validation metrics by training the model from transformer library on diverse complex mental health scenarios and implementing contextual understanding with sound judgment
- Reduced response time by 40% by optimizing the model architecture and implementing efficient data pre-processing techniques

Computer Vision - Face Mask Detection - GitHub January 2023-May 2023

- Engineered pattern recognition system achieving 95% accuracy in identifying security anomalies through advanced image processing techniques and robust testing methodologies
- Applied data augmentation and hyperparameter tuning, boosting model accuracy by 5% maintaining privacy standards
- Reduced alert delivery time to under 5 seconds as measured during system testing by building a real-time web application using Flask API for backend and JavaScript with HTML/CSS for frontend visualization

SKILLS

- **Scripting Languages**: Python, C++, R, SQL, PostgreSQL, NoSQL
- **Technologies**: Pandas, NumPy, Visual Basic, scikit-learn, Pytorch, TensorFlow, Keras, Spark, Apache Airflow, Fabric, Tableau, Looker, Alteryx, Power BI, AWS, Google Cloud Platform, Docker, Git, CI/CD, MLflow, Advanced Excel, PowerPoint
- **Algorithms**: Regression, Random Forest, Decision Tree, Classification, LangChain, RAG, Neural Network
- **Interests**: Database Design, Performance Tuning, Time Series Forecasting, Workflow Automation, LLM fine-tuning, Agile Methodology, Data Warehousing, Data Wrangling, Design Experimentation, Feature Engineering, Model Development

CERTIFICATES

- Google Data Analytics, DataCamp PowerBI, Udemy Solutions Architect – AWS(EC2, S3, Lambda, Step function)