Prasham Shah

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EDUCATION

University of Maryland - College Park   College Park, MD, USA
Master of Science in Information Systems

Gujarat Technological University   Ahmedabad, GJ, India
Bachelor of Engineering in Information and Communication Technology

EXPERIENCE

Data Analyst   January 2025 - December 2025
Twenty39 LLC   Springfield, Virginia, USA
- Built a production-ready RAG chatbot integrating structured and unstructured data, reducing manual research time by 60% for internal teams
- Designed modular backend services (authentication, assessments, semantic search) that enabled scalable AI workflows and faster feature iteration
- Integrated APIs with a frontend application to streamline end-to-end user journeys, supporting secure access, admin tools, and document Q&A
- Delivered a 24/7 client-facing contract Q&A experience that improved response speed, enhanced customer satisfaction, and supported client support at scale

Business Intelligence Analyst   August 2022 - April 2024
I-infotechsys   Ahmedabad, Gujarat, India
- Translated marketing and business requirements into SQL logic and Power BI dashboards, improving cross-team decision-making efficiency by 30%
- Built automated Python pipelines to clean, merge, and standardize SAP/ERP datasets, increasing data accuracy by 25% and reducing manual effort by 40%
- Developed insight-driven dashboards for non-technical stakeholders, increasing report adoption and uncovering high-ROI advertising opportunities
- Conducted A/B testing and statistical analysis on campaign and web performance data, delivering evidence-based recommendations that informed UI and marketing optimizations

Data Scientist Intern   May 2022 - August 2022
BrainyBeam   Ahmedabad, Gujarat, India
- Led an end-to-end churn prediction project, transforming raw activity data into engineered features that improved model reliability by 23%
- Evaluated multiple ML models and deployed a recall-optimized solution that identified high-risk users and contributed to an 11% churn reduction
- Automated preprocessing pipelines to reduce manual data preparation by 30% while improving reproducibility and model consistency

PROJECTS

Flight Delay Prediction | Apache Kafka, PySpark, Spark MLlib
- Solved weather-driven flight delay challenges at Washington, DC airports by building a real-time prediction pipeline that integrated live flight status and weather APIs
- Achieved 87% prediction accuracy with 35% faster model runtime, enabling scalable, timely scheduling and operational planning insights

GenAI Fitness Coach | Python, React, TypeScript, Supabase, OpenAI API
- Addressed the lack of personalized fitness guidance by developing an AI-driven system that adapts workout plans based on user behavior and goals
- Centralized workouts, progress tracking, and AI feedback into one system, saving users time and simplifying their fitness journey

TECHNICAL SKILLS

Analytics & Visualization: Python (Pandas, NumPy), SQL (MySQL, PostgreSQL, CTEs, Window Functions), Tableau, Power BI, Excel, R, A/B Testing
Machine Learning & AI: Regression, Classification, Clustering, Predictive Modeling, NLP, RAG Systems, LangChain, Vector Databases
Data Engineering: PySpark, Spark SQL, Apache Kafka, ETL Pipelines, API Integration, Data Modeling
Databases & Cloud: AWS (S3, Athena, EC2), GCP, Snowflake, BigQuery, MongoDB, Docker, Git/GitHub
Business: Business Analysis, Financial & KPI Analysis, Product & Growth Analytics, Stakeholder Management, Cross-Functional Collaboration, Requirements Gathering, Process Improvement, Data-Driven Decision-Making