

Yash Sharma

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SKILLS

Languages & Cloud: Python, SQL, PySpark, JavaScript, HTML, CSS; AWS, GCP, Databricks, Snowflake, Elastic Search
Big Data & Orchestration: Apache Spark, Kafka, MLFlow, Dagster, Mage, DBT
Generative AI: OpenAI API, LLM, RAG, Vector Databases, Hugging Face, Transformers, PyTorch, FastAI, Langchain
Certifications: Machine Learning Specialization (Stanford), GenAI Bootcamp (Encode), AWS Data Engineer

EXPERIENCE

Sr. Business Intelligence Engineer, PetSmart Inc. **April 2023 – March 2024**

- Led end-to-end development of Sales 360 and Loyalty 360 data models by extracting data from GCP data lake and creating Delta tables in Databricks using pySpark, resulting in a 200% reduction in report generation time
- Created executive dashboards in Tableau, integrating data from Marketing, Loyalty, CRM, and Finance to provide a single source of truth for key business metrics, resulting in a 60% reduction in reporting cycles and enabling business stakeholders to access critical sales and loyalty insights 3x faster
- Mentored 2 junior analysts, accelerating professional development through guidance on SQL, Python, data analytics and statistics
- Increased 10+ brand sales by 20% by analyzing customer purchase data from Google BigQuery and applying K-means clustering to identify target customer segments, enabling the creation and execution of an effective marketing strategy
- Transitioned my team from manual to automated A/B testing using APT for rapid back-testing of pricing strategies; Improved time to implement a new test by 8 sprint points and achieved a 10% lift in targeted store sales
- Implemented 20+ ETL (Extract, Transform, Load) processes to integrate disparate customer data, and developed 9 customer analytics dashboards in Tableau, providing insights and reports across PetSmart, reducing weekly 20 hours of manual work

Business Intelligence Engineer, USAA **May 2021 – April 2023**

- Created and deployed 10+ KPI dashboards using Tableau and SQL, providing real-time insights into hiring, headcount, attrition, and diversity metrics, enabling HR leaders to identify and address talent gaps, reduce time-to-hire by 30% Developed an executive dashboard for 5 regional leaders across the U.S., delivering accurate data insights into the USAA workforce, enhancing decision-making and strategic planning
- Developed 5+ ETL pipelines to extract, transform, and load HR data into Snowflake, reducing weekly data cleaning time by 90% (from 10 hours to 1 hour) and enhancing data reliability by creating single source of truth
- Migrated 100TBs of data from on-premise data warehouse to Snowflake cloud by creating ETL pipelines using python
- Engineered predictive models using advanced cluster analysis and classification techniques, achieving 90% accuracy in employee churn prediction

Data Analyst, USAA **Sept 2019 – May 2021**

- Transformed manual Excel reporting into self-service Tableau dashboards, eliminating 10 hours of weekly technical debt and boosting reporting efficiency by 30%
- Redefined and monitored key diversity and inclusion metrics using Tableau and SQL, contributing to a 25% improvement in organizational diversity
- Produced monthly and quarterly demographic reports for multiple business lines, directly supporting the firm's diversity, equity, and inclusion initiatives, enhancing strategic alignment

EDUCATION

The University of Texas at Dallas, M.S. Data Science **May 2019**

Delhi Technological University, B.S. Computer Science **May 2017**

PROJECTS

Petsmart Q&A Chatbot using LLama 3.1 **April 2023 – March 2024**

- Developed a Retrieval-Augmented Generation (RAG) Q&A system that extracts data from Confluence documents, empowering the BI team to efficiently retrieve answers to queries related to data tables across the company's data lake and data warehouse, significantly improving internal data accessibility and productivity

LEADERSHIP EXPERIENCE

Franchise Owner and Manager - Crossfit Industrious Ballard **Feb 2024 - Present**

Data Analyst Freelancer - UpWork **March 2024 - Present**

Vice President - SAP Users Club at UT Dallas **March 2019 - April 2019**

Best 5 Teams in Case Competition - Project Management Club at UT Dallas **Jan 2018 - April 2018**

Crossfit Coach and Nutrition - Crossfit SLU Industrious **Since December 2024**