

Sahil Walia

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EDUCATION

Master of Science in Business Analytics (GPA: 3.76/4.0)

Aug 2024 - May 2025

W.P. Carey School of Business, Arizona State University

Bachelor of Technology - Automotive Engineering

Jul 2016 - Jun 2020

SRM Institute of Science and Technology, Chennai, TN, India

• **82.12% - First Class with Distinction**

EXPERIENCE

AI Model Validation Expert (Data Labelling) - Handshake AI Fellow

Nov 2025 - Present

- Trained, evaluated, and validated large language model outputs using diverse multimodal inputs (text, image, and video), improving response accuracy, contextual relevance, and alignment with expected model behavior.
- Completed 200+ hours of structured model validation and quality assessment, delivering 500+ high-quality, positively reviewed work samples across multiple evaluation benchmarks.

Decision Analytics Associate Consultant - ZS Associates

Jan 2024 - Jun 2024

- Designed and delivered enterprise-level BI and analytics solutions leveraging clinical trial, census, and real-world evidence data, enabling stakeholders to identify demographic representation gaps and improve diverse patient recruitment outcomes by 30%.
- Architected integrated reporting frameworks across multiple data sources, reducing clinical trial design timelines by 20% while improving site performance forecasting and operational decision-making.
- Built and maintained automated ETL pipelines using Python and SQL, implementing robust data quality checks and validation protocols to achieve 99.9% system reliability and eliminate manual reporting dependencies.
- Translated complex analytical outputs into clear, executive-ready insights to support \$50M+ budget allocation and geographic expansion initiatives across therapeutic areas.

Decision Analytics Associate - ZS Associates

Jan 2023 - Dec 2023

- Developed enterprise BI dashboards and visualization solutions using Tableau, enabling real-time monitoring of prescription trends, payer dynamics, and HCP engagement across multiple geographies.
- Created standardized brand performance scorecards for pharmaceutical portfolios exceeding \$100M, supporting competitive intelligence and strategic planning that improved market share by 25%.
- Envisioned and implemented initiative tracking and reporting systems for 120+ concurrent projects, reducing reporting overhead by 60% and enabling proactive risk identification.
- Collaborated cross-functionally with business, analytics, and technology teams to deliver scalable, self-service BI assets adopted across enterprise stakeholders.

Business Operations Associate - ZS Associates

May 2021 - Dec 2022

- Built clinical trial monitoring and audit-readiness dashboards, strengthening risk-based monitoring capabilities and reducing regulatory preparation timelines from weeks to days.
- Designed data models and reporting frameworks to track 110+ R&D initiatives within an oncology portfolio, providing executive-level visibility into a \$75M+ development pipeline.
- Implemented standardized data management and reporting processes using Excel/VBA, SQL, and Tableau, reducing manual effort by 30% while improving data accuracy and consistency.

ACADEMIC PROJECTS

- **Student Research Volunteer (Sep 2025 - Present):** Researching explainable AI techniques using publicly available mammogram datasets to improve model interpretability and support early-stage cancer diagnosis.
- **Harley-Davidson Capstone - AI Sentiment Analyzer (Jan 2025 - May 2025):** Enabled data-driven marketing and R&D decisions by extracting consumer insights from large-scale social media data using NLP-based sentiment analysis (RoBERTa, BERT).

SKILLS

- **Business Intelligence & Data Visualization:** Tableau, Power BI, Looker, Excel, KPI Design, Business Process Documentation, Data Governance
- **Data Engineering & Programming:** SQL (Snowflake, Postgres), Python, PySpark, ETL/ELT Pipelines, Git, VBA
- **Machine Learning & AI:** Predictive Analytics, PyTorch, Natural Language Processing (NLP), GenAI
- **Cloud Platforms:** AWS (SageMaker, Redshift), Azure Data Fundamentals, Google BigQuery
- **Statistical & Analytical Methods:** Statistical Analysis, Statistical Modeling, Process Improvement, A/B Testing
- **Healthcare & Clinical Analytics:** Healthcare Analytics, Clinical Trial Design, Risk-Based Monitoring, ICH-GCP

CERTIFICATIONS

- Google - Business Intelligence, Coursera - 2025
- IBM - AI Foundations for Everyone, Coursera - 2025
- Tableau Certified Data Analyst, Salesforce - 2023