SAI KRISHNA KOTLA

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SUMMARY

Seasoned Data Specialist with seven years of experience delivering data-driven results in fast-paced environments, excelling in the craft of Data Visualization and Storytelling. Skilled in end-to-end data roadmaps, migration (ETL/ELT), data quality and cleansing framework, with a proven ability to leverage cloud services. Committed to customer-centric values, ensuring the delivery of high-quality products. Equipped with strong cross-functional, project management, and technical abilities, adept at resolving complex challenges and driving significant outcomes

AREA OF EXPERTISE

- Data Visualization & Storytelling
- Agile project management methodologies
- Strategic Planning & Process Improvement
- ETL/ELT Processes

- Data Interpretation and Reporting
- Data Architecture & Warehousing
- Cross-functional collaboration and teamwork
- Requirement Analysis and Gap Analysis

- Statistical Analysis and Advance Analytics
- Customer Experience (CX)
- Quality Assurance
- Stakeholder Engagement

PROFESSIONAL EXPERIENCE

BI Developer (Product Enhancements),

LAVIS Research Informatics, Madison, WI — *Jan 2023 – Present*

- Led optimization strategies for a cross-functional BI team, setting clear goals, priorities, and roles, enhancing communication to boost performance and insight delivery
- Designed executive level Tableau dashboards, offering detailed operational metrics, business line KPIs and timelines, enhancing strategic decision making.
- Built Tableau dashboards for adverse event tracking & risk indicators, improving risk management, reducing high-risk event identification time.
- Utilized Power BI to analyze clinical lab test outcomes, optimizing clinical trial operations by establishing precise metrics to elevate operational efficiency.
- Employed Power Apps & Power Automate for issue tracking and resolution, improving resolution time by 2x, integrated Power BI for real-time insights.
- Migrated from on-premises to AWS (using S3, Redshift, Glue), utilized QuickSight for analytics, lowering operational costs and data processes by 25%.
- Applied a Microsoft Azure data roadmap including Blob Storage, API Management, Synapse Analytics, and Data Factory for unified data management process, securing 2 new clients.
- Employed Python to perform advanced analytics, including EDA, statistical modeling, and feature engineering, to drive data-driven decision-making in Agile environments.
- Utilized demographic and DEI data to refine targeting strategies for clinical trial recruitment, employing statistical analysis to identify and engage underrepresented populations, resulting in a more diverse participant base and improved trial validity.
- Designed analytical frameworks to measure the effectiveness of home-based trial initiatives, enabling continuous improvement through data-driven insights that reduced dropout rates and streamlined trial processes.
- Identified competitive advantages by performing comparative analyses on clinical drug data against competitors, informing market positioning strategies and stakeholder presentations.

Business Intelligence Analyst,

LAVIS Research Informatics, India — *Dec 2017 – Aug 2021*

- Spearheaded user stories and prototypes (wireframes) development with in-depth requirement analysis, resulting in 25% faster project execution through comprehensive technical specs and user manuals, enhancing team clarity and efficiency.
- Integrated large datasets from 25+ sources via SSIS, Talend, Dbt and APIs, optimizing pipelines in both on-premises and Snowflake/Azure cloud environments.
- Applied data governance protocols, quality checks, and standard formatting models to ensure data integrity and compliance, conducting root cause analysis to resolve data issues.
- Implemented SQL data access solutions, optimizing retrieval with stored procedures, UDFs, and joins, and improved data dictionaries.
- Developed 25+ data marts and automated workflows with SQL Server Agent, tailoring to specific business needs and streamlining operations.
- Crafted 75+ custom reports and 45+ dashboards via SSRS, Power BI, Tableau, Crystal, Jasper & QuickSight, for operational enhancements and insights.
- Led cross-functional teams (on-site & off-site) to deliver over $1M in revenue growth through strategic requirement management, team development through mentorship, impactful demos, and prioritizing client satisfaction.

Custom Dashboard & Analytics Implementations

- Implemented critical BI applications and dashboards catering to diverse organizational needs, including Executive Insights, Data Quality and Profiling, Process Monitoring, Core Operations, Audit and Regulatory Compliance, Financial Monitoring, and HR Management. These tools significantly enhanced organizational efficiency by supporting functions like training, document management, employee onboarding, retention analysis, user retention, application usage, and safety monitoring.
- Designed comprehensive statistical reports for patient profiles using Python Libraries, HTML and CSS to create static web pages, with capabilities for converting these into PDFs for easy printing; also adept at generating Excel-based reports to enhance data accessibility and analysis.
- Led UI/UX optimizations using Figma and A/B testing, significantly enhancing user engagement, retention, and shaping NPS & CSAT strategy to boost customer satisfaction.
- Designed subscription-based reports for audit, IRB, and other approvals, with monthly and bi-weekly delivery to management teams. Implemented localization and internationalization, enhanced security protocols, and privileged access controls. Utilized data-driven subscriptions to dynamically customize report outputs and delivery.

ETL Developer,

Cognizant Technologies, India — *Mar 2016 – Nov 2017*

- Created an Oracle Warehouse Builder (OWB)-based ETL framework, boosting data integration efficiency & Mainframe integration.
- Developed complex SQL queries to create SSRS reports, merging data from multiple tables and databases, ensuring comprehensive data representation.
- Conducted requirement analysis and crafted ad-hoc SQL query batches for updating data and metadata, optimizing delta and historical data loads.
- Specialized in creating diverse report types (table, chart, list, matrix) in SSRS, leveraging advanced reporting techniques and understanding of report serving architecture for insightful data presentation.

Junior Engineer Trainee,

NCC Limited, India — *Jun 2015 – Jan 2016*

- Applied data-driven strategies for village electrification, raising supply chain and procurement efficiency to through advanced data analysis using Microsoft Excel.
- Built Excel tools with VBA & pivot tables and used Power BI & Tableau for visualizing data, elevating procurement, and budget forecasting accuracy.

EDUCATION

Master of Science in Information Systems, Northeastern University, Boston, MA — Sept 2021 – Dec 2023

Bachelor of Technology in Electrical Engineering, GITAM University, Visakhapatnam, India — May 2011 – May 2015

SKILLS & CERTIFICATIONS

Certifications: Microsoft SQL Server 2012/2014, Tableau Desktop Specialist, AWS Certified Cloud Practitioner, Certified Scrum Master, Google Data Analytics Professional, Google Business Intelligence Professional, Google Project Management Professional, Databricks Lakehouse fundamentals, Snowflake Data warehousing fundamentals

Programming: Python, R, SAS

Database, Data Warehousing, Cloud, and ETL/Data Modeling: SQL Server, MySQL, Oracle, Athena, Google Big Query, GCP, AWS, Microsoft Azure, Azure Data Factory, SSIS, Talend, Alteryx, dbt

BI & Reporting: Power BI, Tableau, SSRS, QuickSight, Google Data Analytics, QlikView, Looker, Google Data Studio

Utilities: MS Office Suite (Word, Excel, PowerPoint), Asana, Jira

Web Development & UX: HTML, CSS, JavaScript, Axure RP, Balsamiq Mockups, Figma

Machine Learning: Supervised, Unsupervised, Reinforcement, Feature Engineering, Model Evaluation

PROJECTS

Enterprise Data Warehouse Design

- Architected an efficient Flight Management System data architecture, using SQL Server, Oracle, MySQL, PostgreSQL & Athena with AWS Glue, SSIS, Talend & Alteryx to enhance Business Intelligence capabilities, improving data retrieval times and analytics accuracy via Power BI and Tableau.

Cloud-native Application Development

- Designed and implemented cloud applications on AWS, utilizing EC2, S3, Lambda, Auto Scaling, and CloudWatch, resulting in optimized performance, scalability, and a robust monitoring framework that significantly enhanced operational efficiencies.