

VISHWANADH MANDALA

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PROFESSIONAL SUMMARY

In the ever-evolving information technology landscape, I commenced an extraordinary adventure as a data engineering leader in the analytics and AI departments. For over two decades, my professional voyage led me through pivotal roles at esteemed institutions, including Accenture, IBM, Oracle, Ciena, and Cummins.

SKILLS

Big data Management, AI, ML.
Research In Big Data, AI, and ML.
Data Engineering in AWS, Azure, and GCP.
Data Engineering with Azure data bricks.
AI/ML Development
Data Engineering with Snowflake and Azure Data bricks.

Data architecture, Data Governance, Data Modeling, ETL Development, and Data Analytics.
NoSQL databases, Graph Databases, and RDBMS
API and Integration Developments.
Leadership, Delivery, Support, Automation, and DevSecOps in Data engagements.
Snowflake, Azure data bricks, python, DBT, Fivetran, Striim, Kafka, Qlik, ADF, Scala, Java,matillion,app works, apache airflow, mule soft, spring,aws lambda, groovy,

WORK HISTORY

Jan 2023 - Current

Lead - Data Engineering, Dept : Analytics and AI

Cummins - Columbus, IN

- Leading Large-scale projects in the Analytics and AI department.
- Enhanced data processing efficiency by providing high-quality solutions, and designing, and implementing ETL pipelines.
- Collaborated with cross-functional teams to develop tailored data solutions for business needs.
- Implemented cutting-edge tools and technologies to enhance the capabilities of the Data Engineering team.
- Reduced time spent on manual tasks by developing automated workflows for common data operations.
- Supported company growth by scaling existing infrastructure to accommodate increasing amounts of data.
- Enabled faster decision-making through real-time processing and analysis of large datasets.
- Spearheaded the adoption of best practices in Data

Engineering, ensuring consistency and high-quality work across projects.

- Mentored junior team members, fostering a culture of continuous learning and improvement within the department.
- Contributed to strategic planning initiatives by providing insights derived from thorough data analysis.
- Facilitated seamless collaboration with Data Science teams, enabling efficient utilization of shared resources and expertise.
- Increased operational efficiency by identifying areas for optimization in current systems and processes, then implementing targeted improvements.
- Championed secure data handling practices, safeguarding sensitive information from unauthorized access or misuse.
- Optimized data storage through the development of a scalable data lake architecture.
- Streamlined data analytics processes by automating data ingestion and integration tasks.
- Improved data quality with rigorous validation and cleansing techniques.

Aug 2020 - Jan 2023

Arcitect - Data and Integration:

Dept : EDIA

Ciena - Hanover, MD

- Enhanced data management efficiency by designing and implementing enterprise-level data architecture solutions.
- Enhanced data accuracy and consistency with the development of robust data integration processes.
- Streamlined communication between systems by creating seamless data interfaces, resulting in improved cross-functional collaboration.
- Reduced project timelines through efficient management of integration projects from inception to completion.
- Ensured optimal performance of integrated systems by conducting thorough testing and validation procedures.
- Collaborated with cross-functional teams to develop comprehensive integration strategies that aligned with organizational goals.
- Provided technical expertise to support teams during critical incident resolution efforts involving integrated systems.
- Developed custom APIs to facilitate seamless data exchange between disparate systems, enhancing overall system functionality.
- Optimized existing system integrations by identifying

areas for improvement and implementing necessary changes, leading to increased productivity across departments.

- Ensured compliance with industry regulations by conducting regular audits on all integrated systems and addressing any areas of non-compliance promptly.
- Facilitated knowledge-sharing sessions among team members about advancements in integration methodologies to maintain a cutting-edge understanding within the department.

Jul 2017 - Aug 2020

**Data Integration
Architect, Service Delivery
Leader**

Cummins - Columbus, IN

- Enhanced building functionality by optimizing space utilization and incorporating sustainable design elements.
- Collaborated with clients to develop customized architectural solutions, meeting their unique needs and preferences.
- Designed visually appealing structures by integrating artistic elements with practical applications for various project types.
- Streamlined construction processes by coordinating with engineers, contractors, and other professionals to ensure timely completion of projects.
- Participated in professional conferences and training seminars to stay current on industry trends, ensuring cutting-edge design approaches were utilized in all projects.
- Performed complex architectural and design assignments, applying innovative architectural design concepts and advanced professional knowledge.
- Reviewed contractor proposals to determine favorable partnerships for on-time and under-budget project completion.
- Collected, arranged, and input information into database system.
- Developed effective improvement plans in alignment with goals and specifications.

Oct 2016 - Jun 2017

Data Integration Leader

American Airlines - Fort Worth, TX

- Improved data integration processes by implementing efficient ETL strategies and tools.
- Streamlined data migration tasks for seamless system transitions and minimized downtime.
- Enhanced data quality with thorough validation and cleansing techniques, ensuring accuracy in analytics reports.
- Implemented robust monitoring of data pipelines, identifying potential issues before they impact business

Apr 2012 - Oct 2016

Data Integration Leader

Sierra-Cedar - Alpharetta, GA

operations.

- Enhanced data accuracy and consistency with the development of robust data integration processes.
- Improved system efficiency by designing and implementing integration solutions for business applications.
- Streamlined communication between systems by creating seamless data interfaces, resulting in improved cross-functional collaboration.
- Boosted overall system security with the incorporation of industry-standard best practices in all integration projects.
- Collaborated with cross-functional teams to develop comprehensive integration strategies that aligned with organizational goals.
- Mentored junior team members, fostering a collaborative environment that promoted professional growth and skill development amongst peers.
- Provided technical expertise to support teams during critical incident resolution efforts involving integrated systems.

Mar 2011 - Jan 2012

Data Integration Lead

Oracle - Hyderabad, India

- Improved data integration processes by implementing efficient ETL strategies and tools.
- Streamlined data migration tasks for seamless system transitions and minimized downtime.
- Enhanced data quality with thorough validation and cleansing techniques, ensuring accuracy in analytics reports.

Nov 2007 - Oct 2010

IT Technical Lead

IBM - Bangalore, Indian

- Improved IT infrastructure by implementing efficient technical operations strategies and streamlining processes.
- Optimized system performance through proactive monitoring, troubleshooting, and maintenance of hardware and software components.
- Enhanced team productivity by providing technical guidance and mentorship to junior staff members.
- Reduced downtime with thorough risk assessment, proactive planning, and systematic contingency measures.
- Ensured data security by implementing comprehensive cybersecurity protocols and performing regular audits.
- Implemented effective change management processes to facilitate seamless integration of new technologies into existing systems.

Oct 2006 - Nov 2007

Senior Software Engineer

Accenture - Bangalore, India

- Optimized code performance for improved user experience and system efficiency.
- Enhanced software functionality by identifying and resolving complex technical issues.
- Mentored junior developers, fostering professional growth and enhancing team productivity.
- Developed scalable applications using agile methodologies for timely project delivery.

EDUCATION

Aug 2022

Master of Science: Data Science

Indiana University Bloomington | Bloomington, IN

Jul 2006

Master of Science: Computer Science & Engineering

School of Information Technology, JNTU Campus | Hyderabad, India

CERTIFICATIONS

No Of Patents Granted: 4.

No of the articles published: 12.

No of Book Chapters published: 02.

No of Books: 02.

Reviewer for multiple journals.

Certifications: Google Cloud Engineer, Azure Data fundamentals, Snowflake, Azure data bricks, Mulesoft developer, TOGAF9, Google Cloud Professional Architect Certified developer certified solution Architect, API Design associate, Safe Agile, Oracle SOA Foundational, Oracle SOA Infrastructure, SCEALevel1, SCJP 1.5, SCWCD, IBM SOA.

Google Scholar URL: <https://scholar.google.com/citations?user=MuD2ycAAAAJ&hl=en>

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