

# AJITH SURAPARAJU

(Data Engineer)

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## SUMMARY OF QUALIFICATION

Experienced and certified Data Engineer with a strong foundation in designing, implementing, and optimizing batch and streaming data pipelines. Proficient in various technologies, including Python, SQL, Apache Spark, Databricks, and Microsoft Azure. Skilled in ensuring operational stability, data quality, and compliance throughout the data pipeline process. Adept at collaborating with cross-functional teams to deliver data-driven solutions that enhance decision-making processes and drive business growth.

## CERTIFICATION

Microsoft Certified: Azure Data Engineer Associate  
Microsoft Certified: Azure Data Fundamentals

May 2024  
April 2024

## TECHNICAL SKILLS

- Python
- SQL
- GitHub
- Apache Spark
- Hadoop
- Hive
- Databricks
- Snowflake
- Teradata
- Apache Airflow
- Power BI
- Microsoft Azure

## PROFESSIONAL EXPERIENCE

### Vega Techno Systems

Pune, India

Data Pipeline Optimization Specialist

May 2021 – July 2022

- Designed and implemented data pipelines using Azure Data Factory and Databricks, cutting processing time by 35%. Utilized Python and Azure Cloud services for efficient data processing and transformation.
- Collaborated with developers, tech leads, and stakeholders to gather data requirements, resulting in the design and deployment of data solutions aligned with business needs. This collaborative effort boosted project delivery efficiency. Proficient in software development methodologies, including waterfall and agile, ensuring flexibility and adaptability in data solution development.
- Implemented data security measures, reducing security incidents by 20%. Used Cloud Composer/Airflow and Dataflow/Data Fusion for process automation and data validation, enhancing data governance.
- Analyzed complex data structures and designed large-scale pipelines. Improved ETL efficiency by 40% using Teradata utilities. Engaged in agile activities and user story grooming to refine data workflows.
- Created data visualizations and reports with MicroStrategy and Tableau, aiding decision-making and strategic planning. Addressed industry-specific challenges in the Health Care/PBM domain, improving data accuracy and reporting speed by 25%.

### Vega Techno Systems,

Pune, India

ETL Process Engineer

August 2020 – May 2021

- Azure-based solutions boosted data processing by 300%, slashing latency by 40%. Leveraged Azure Data Lake and Azure Data Factory for optimized storage, cutting data retrieval time by 50%.
- Managed Databricks, Spark, and Python pipelines, ensuring 99.9% uptime. ML models improved accuracy by 20%. Collaboration enhanced actionable insights by 35%.
- Used SQL, Python, and Spark for structured and unstructured data, boosting pipeline performance by 45%. Integrated data from various sources via JDBC/ODBC & REST APIs, increasing availability by 60%.
- Employed Azure DevOps & Git, cutting deployment cycles by 25%. Developed RESTful APIs, reducing response time by 30%. Implemented monitoring tools, boosting system reliability by 40%.

## ACADEMIC PROJECTS

### Indiana Wesleyan University,

Indiana, USA

Data Engineer (Graduate Assistant)

January 2024 – April 2024

- Successfully deployed a comprehensive data engineering solution, leveraging cutting-edge technologies, to provide the university athletic team with access to extensive historical athletic records, enhancing data utilization. Increased data accessibility by 50%.
- Improved team preparation for upcoming games by enabling data-driven decision-making, analyzing past performance metrics. Achieved a 30% increase in game success rate.
- Facilitated collaboration among coaches and athletic staff with intuitive data visualization dashboards, enhancing performance insights. Reduced meeting times by 20% through streamlined discussions.

## EDUCATION

Indiana Wesleyan University  
Sri Venkateshwara University

MS in Data Science. GPA: 3.93  
BS in Computer Science and Engineering. GPA:3.15

October 2022 – April 2024  
August 2016 – May 2020

## ADDITIONAL SKILLS

Problem-solving and Analysis, Communication, Troubleshooting, Decision-making, Database Systems, Dataflow/Data Fusion, Data Structure, Data warehousing, Data pipeline orchestration, Advanced Data modeling and architecture design, Collaboration skills, Data Privacy and Governance.

## CO-CURRICULAR & EXTRACURRICULAR ACTIVITIES

- Volunteer for Sigmoid 2018 and 2019, a Computer Science and Engineering branch technical event.
- Captain of the National Athletic team for the National Athletic Meet.
- Won the Gold medal in the Triple Jump at the National Athletic Meet.