

J. Sri Manikanta  
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Portfolio:

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### Professional Summary:

- Azure Data Engineer with 3+ years of experience in backend development and data processing.
- Started as a PHP developer working with databases and APIs, and transitioned into data engineering to focus on scalable data pipelines and analytics systems.
- Hands-on experience in building end-to-end ETL pipelines using Azure Data Factory and Databricks, implementing Bronze, Silver, Gold architecture, and processing large datasets using PySpark and Delta Lake.
- Skilled in data transformation, pipeline orchestration, and designing reliable data workflows for analytics and reporting.

### Technical Skills:

**Languages:** Python, PySpark, SQL, PHP

**Databases:** MySQL, Azure SQL

**Azure:** Azure Data Factory (ADF), Databricks, ADLS Gen2, Key Vault

**Data Processing:** ETL/ELT, SCD Type 1 & 2, Dataflows, Delta Lake

**Visualization:** Power BI

**Tools:** GitHub, Draw.io, SSMS

### Projects:

#### Project 1: **Customer Account Data Pipeline | Azure Data Factory**

- Built end-to-end ETL pipeline processing 5+ datasets (~50K+ records)
- Ingested raw data into ADLS Gen2 (Bronze layer) using ADF
- Transformed data using ADF Dataflows (cleaning, deduplication, schema mapping)
- Implemented SCD Type 1 & Type 2 for historical tracking
- Loaded curated data into Azure SQL Database (Gold layer)
- Developed parameterized pipelines and scheduled workflows.

#### Project 2: **Transaction Data Processing | Azure Databricks**

- Built scalable data pipeline using Databricks and Delta Lake
- Processed data from Bronze → Silver → Gold layers
- Processed structured datasets using PySpark transformations (joins, filtering, aggregations)
- Implemented incremental data loading
- Orchestrated workflows using ADF triggers
- Integrated processed data with Power BI
- Optimized data processing performance using Delta Lake features

### Project 3: NYC Taxi Data Pipeline | Azure Data Engineering

- Designed dynamic ingestion pipeline using Azure Data Factory
- Automated monthly ingestion using parameterized pipelines & ForEach loop
- Processed ~1M+ records using PySpark in Databricks
- Implemented Bronze, Silver, Gold architecture using ADLS Gen2
- Used Delta Lake for versioning, time travel, and performance optimization
- Built scalable and reusable pipeline for multi-source data

#### Work Experience:

##### **Weblabs Technologies**

**Role: PHP Developer**

**Duration: Dec 2022 – Dec 2024**

- Developed backend systems using PHP and MySQL
- Designed database schemas and handled structured data
- Built APIs and optimized database queries
- Worked on data validation, transformation, and efficient data handling
- Built strong foundation in backend and data workflows

#### Nivas Creations

**Role: Web Developer**

**Duration: Dec 2024 – Present**

- Developed and maintained web applications with backend data handling
- Worked with databases for data storage and retrieval
- Implemented performance optimization and efficient data operations
- Handled end-to-end development including backend logic

#### Education

- **Degree** B.sc Computers from Vijaya Teja Degree College, ANU University

#### Azure Data Engineering Training (Hands-on Projects)

- Built ETL pipelines using ADF and Databricks
- Implemented Bronze, Silver, Gold architecture
- Developed PySpark notebooks for data transformation
- Implemented SCD Type 1 & Type 2 logic
- Created Power BI dashboards for reporting and analytics

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