# Janani N B

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### **Professional Summary**

Data Engineer with 3 years of experience building and optimizing data pipelines using **Databricks**, **PySpark**, **Python**, and **SQL**. Developed scalable ETL workflows and notebooks within Databricks, leveraging **Azure Cloud** services including **Data Factory**, **Azure Functions**, and **Blob Storage**. Hands-on experience with integrating **OpenAI technologies** and implementing **RAG** (**Retrieval-Augmented Generation**) models to enhance intelligent data workflows. Proven ability to reduce runtime, improve code performance, and deliver production-ready solutions.

## **Technical Skills**

Languages: Python, PySpark, Spark SQL

Tools & Technologies: Databricks, Azure Data Factory, Azure Functions, Azure DevOps, Blob Storage

Concepts: ETL/ELT, Data Modeling, Data Warehousing, Data Lake Architecture

## Professional Experience

#### Senior Software Engineer in Data Engineering, Tiger Analytics

July 2023 - Present:

- Developed an automated pipeline that integrated with DealCloud to streamline meeting workflows, collected upcoming meeting data, sent personalized email templates to attendees via Graph API 1 hour prior, and post-meeting, processed email responses as summaries, key points, and next steps, which were automatically updated in DealCloud. This solution improved meeting preparedness and eliminated manual data entry.
- Engineered an end-to-end data ingestion and transformation pipeline to extract content from scanned and non-scanned PDFs, applied preprocessing and chunking logic using LLMs, and stored resulting embeddings in Databricks Vector DB as part of a scalable, domain-specific RAG (Retrieval-Augmented Generation) architecture.
- Developed an agentic workflow that executes tasks based on user queries and selections from a frontend
  app, featuring multiple agents including a master agent, task-specific agents for retrieving data from vector
  databases and Databricks SQL tables, and a validation agent to ensure data accuracy.

#### Software Engineer in Data Engineering, Tiger Analytics

May 2022 - July 2023:

Graduated: 2022

- Handled daily data engineering tasks including debugging pipelines, migrating pandas to PySpark, and developing robust ETL notebooks; optimized Spark workflows to reduce runtime by 83% (2 hrs to 20 mins) and cut compute costs by over 80%.
- Automated an event-driven pipeline using Azure Functions and Databricks Jobs to reduce idle compute time, saving over 75% in monthly costs.
- Developed reusable data quality validation framework in PySpark to enforce schema checks, null constraints, and anomaly detection across ETL pipelines, improving reliability and reducing data issues in production.
- Developed a generative AI-based utility that parsed and summarized Databricks notebooks and workflows by extracting code, markdown, and metadata, reducing documentation effort and improving onboarding efficiency for new team members.

#### Education

# Bachelor of Engineering in Electrical and Electronics Engineering

Sri Krishna College of Technology

### Certifications

- Databricks Certified Data Engineer Associate
- Microsoft Certified Azure Data Fundamentals