

AKHILA BENDRAM

akhilabendram.netlify.app | akhilaben25@gmail.com | LinkedIn: <https://www.linkedin.com/in/akhila-bendram-63a60b372/> | GitHub: github.com/AkhilaBendram | Overland Park, KS

PROFESSIONAL SUMMARY:

Python Developer with 4+ years of experience building large-scale **backend systems**, distributed **ETL/ELT pipelines**, and **cloud-native data platforms** using **Python**, **Django**, **Flask**, **Airflow**, and **PySpark**. Expert in designing **REST APIs**, integrating **microservices**, and developing high-throughput **data processing** workflows across **AWS (EC2, S3, Lambda, EKS)** and **Azure (AKS, ADF, Functions, Synapse)**. Strong foundation in **SQL**, **NoSQL**, **Spark**, **containerization (Docker, Kubernetes)**, **event-driven architectures**, **CI/CD automation (Jenkins, GitHub Actions)**, and production-grade **cloud deployments**. Proven ability to optimize pipelines, reduce latency, enhance system reliability, and collaborate across **backend**, **data engineering**, and **DevOps** teams to deliver robust, fault-tolerant, scalable solutions in enterprise environments.

PROFESSIONAL EXPERIENCE:

Python Backend Developer — Verizon, Irving, TX.
March 2025 – Present.

- Built and optimized REST APIs using Django/Flask, improving backend reliability and scalability
 - Developed Airflow DAGs and PySpark pipelines, reducing data processing time by 35%
 - Containerized services using Docker and deployed on Azure Kubernetes Service (AKS)
 - Automated event-driven tasks using Azure Functions + Logic Apps
 - Integrated Pandas/NumPy workflows for analytics, validation, and transformations
 - Designed Spark SQL jobs for large-scale ETL performance optimization
 - Delivered Tableau dashboards for KPIs and operational monitoring
 - Used AWS Boto3 for metadata tracking, file operations, and system automations
 - Implemented CI/CD workflows with Jenkins, improving release stability
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Programming Analyst — Cognizant Technology Solutions, Chennai.
July 2022 – July 2023.

- Developed end-to-end modules using Python, Django, AngularJS, JavaScript
 - Built ETL pipelines using GCP Airflow and Databricks (PySpark)
 - Migrated databases (SQLite → MySQL → PostgreSQL) with zero data loss
 - Created REST APIs using Django REST & Flask
 - Optimized SQL queries and performed CRUD ops across relational databases
 - Automated workflows using Pandas, NumPy
 - Deployed microservices on AWS EC2 with Docker
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Microsoft Azure Data Intern — Cognizant Technology Solutions, Chennai
Jan 2022 – June 2022

- Supported Azure-based data engineering workflows across Data Lake, Data Factory, and Synapse pipelines
- Assisted in building ingestion and transformation flows using Python, SQL, and ADF mapping/data flows
- Developed logic for cleansing, deduplication, and normalization of structured datasets

- Created and scheduled ETL pipelines using Azure Data Factory with triggers, linked services, and integration runtimes
 - Performed data validation, schema mapping, and quality checks before loading into Azure SQL and Synapse tables
 - Automated recurring data-prep tasks using Python (Pandas) and Azure Functions
 - Monitored pipeline performance, optimized costs, and documented data lineage and workflow dependencies.
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Associate Python Developer — Wavelab Technologies, Hyderabad.
Jan 2020 – Dec 2021.

- Developed backend modules using Django/Flask for automation systems
 - Designed REST APIs for ingestion, cleaning, and transformation
 - Built ETL scripts using Pandas & NumPy for internal dashboards
 - Wrote Pytest/Unit Test suites for validation
 - Supported DevOps workflows using Jenkins and Git
 - Built UI components with HTML/CSS/JavaScript for IoT metrics
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EDUCATION:

- **Master of Science – Big Data Analytics & Information Technology**
University of Central Missouri, Warrensburg, MO — 2023–2024
 - **Bachelor of Technology – Electrical & Electronics Engineering**
CVR College of Engineering, Hyderabad, India — 2018–2022
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PROJECTS:

- **Skillfox** — Python, Fast API, OpenAI, Next.js
Built an AI-driven resume-JD matcher with ATS scoring, recruiter summaries, keyword extraction, and automated bullet rewriting.
- **Perspectiv Data Explorer** — Python, React, ECharts
Developed a smart CSV-to-insights engine that auto-generates charts, detects patterns, and provides AI-powered narratives.