Bharatkumar Gungoman

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Summary

GenAI and Full-Stack Developer specializing in building production-grade backend systems, LLM-powered applications, and distributed ML pipelines. Experienced in RAG-based architectures, cloud-native microservices, and end-to-end AutoML systems

Education

Bachelor of Engineering in Information Technology, **APSIT** Sept 2023 – May 2027

Experience

SDE Intern – PassionBytes, Thane | **Experience Letter** Dec 2025 – Feb 2026

Tech Stack: Apache Spark, Splink, Python, Flask, React.js, Kubernetes, Docker, Trino, MinIO, MongoDB, PostgreSQL, Git

- Refactored a production data deduplication microservice, migrating from a broken monolithic codebase to a modular architecture with a Flask backend and modern React frontend.
- Fixed and rebuilt the non-functional record linkage pipeline powered by Splink, implemented job orchestration and improving deduplication accuracy via optimized EM training and blocking rules.
- Migrated Apache Spark execution from local mode to a distributed Kubernetes cluster, implementing spark-submit client mode with backend-driven drivers and distributed executors.
- Built a Flask-based service layer with asynchronous job orchestration, progress tracking, and integrations with Apache Spark, Trino, and MinIO with Keycloak authentication.
- Containerized the entire application with Docker and successfully integrated the microservice into the main Zigma Data product.

Projects

1. InferX-ML - End-to-End AutoML Platform for Training and Inference

Technologies: Python, React, Flask, Celery, Redis, PostgreSQL, MinIO, Docker

- Built a full-stack no-code AutoML platform for technical and non-technical users to upload datasets and automatically train, evaluate, and compare 10+ ML algorithms across tabular, time-series, and image data types.
- Integrated Groq/Gemini LLMs to auto-analyze uploaded datasets, detect problem type, recommend target columns, and suggest training strategies and eliminating the need for any manual ML configuration.
- Implemented asynchronous model training using Celery + Redis with SHAP-based explainability, and exported a structured ZIP artifact bundling all model files, preprocessing pipeline, evaluation metrics, and schema ready for direct integration into external pipelines.
- Delivered a post-training interactive Streamlit prediction UI for real-time inference, containerized the entire platform across 6 services via Docker Compose for consistent and reproducible deployment.

2. Research Paper Generator & AI Detection System

- Built an AI-powered research platform that generates papers from user topics (via Gemini/Groq) and verifies uploaded PDF/LaTeX documents for originality with explainable detection scores.

Skills

Languages: Python, TypeScript, JavaScript
Frameworks & Libraries: Flask, FastAPI, LangChain, NumPy, Pandas, Matplotlib, Seaborn, React.js, Express.js
Distributed Systems & Data: Apache Spark (PySpark, Spark SQL), Trino, Splink
GenAI & ML: LangChain, RAG Pipelines, LLM Integrations
Databases : PostgreSQL, MongoDB, Redis, MinIO (S3), VectorDB (Pinecone)
Cloud & DevOps: Docker, Kubernetes, AWS, Git

Achievement and Certifications

1. Hackstreak 1.0 **(Winner)**
2. Tech Head (Dev/DB), **Google Developer Group (GDG)**
3. Google Cloud Study Jam | Google GenAI Study Jam, Participant