B. JANARDHANA BILIYA
AIML Engineer

Mail: janardhanabiliya25@gmail.com

Mobile: +91 9035979207

LinkedIn: linkedin.com/in/b-janardhana-biliya-740507225

GitHub: github.com/biliyajanardhan

Location: Mangalore, Karnataka

Professional Summary

Results-driven **AI/ML Engineer** with **2+ years of experience** in building end-to-end machine learning systems, scalable MLOps pipelines, automated deployments, and cloud-native solutions on **Azure and AWS**. Skilled in model development, CI/CD automation, data engineering, ETL pipelines, workflow orchestration, and real-time monitoring. Strong foundation in **ML lifecycle management, serverless workflows, Kubernetes deployments**, and production-grade ML systems.

Skills

Programming: Python, PHP, SQL, React JS

Machine Learning & AI: Scikit-learn, TensorFlow, PyTorch, OpenCV, LLaMA, Hugging Face, NLP, Computer Vision

Agentic AI: Agent workflows, tool-use agents, planning agents, ReAct framework, agent pipelines, LangChain Agents, AutoGen

MLOps & DevOps: MLflow, Docker, Git, CI/CD (GitHub Actions, Jenkins), Apache Airflow, Kubeflow, Evidently AI, Prometheus, Grafana, YAML-based pipeline configuration

Cloud Platforms: Azure (Azure ML, Storage, App Service, Managed Endpoints, Data Lake, Data Factory), AWS (S3, SageMaker, Lambda, Glue, EventBridge, SNS, CloudWatch)

Data Engineering: Apache Kafka, Apache Spark (Basics), Spark SQL, ETL Pipelines

APIs & Tools: Flask, FastAPI, REST APIs, Streamlit, Power BI

Databases: PostgreSQL, MySQL, MongoDB

Soft Skills: Problem Solving, Communication, Team Collaboration, Analytical Thinking

Work Experience

AIML Engineer — MLOps (Contract) *Sep 2023 – Present*
Mangalore Refinery and Petrochemicals Limited (MRPL), Mangalore, India

- Designed and maintained end-to-end **MLOps pipelines** for model versioning, deployment, monitoring, and retraining.
- Implemented **CI/CD pipelines** for ML workflows using **Docker, MLflow, and Airflow**.
- Automated **data ingestion and ETL pipelines** for production ML systems.
- Deployed and managed ML services using **Kubernetes** across **on-prem**.
- Enabled **model and system monitoring** using **Prometheus and Grafana** with metrics and alerts.

Projects

- **Personal Portfolio Website (Flask + Azure):** Built and deployed a responsive portfolio website using Flask and Tailwind CSS, with CI/CD on Azure App Service.
  Live URL: https://janardhana-portfolio-fabzakf5ergueqhn.southindia-01.azurewebsites.net/

- **Kubernetes MLOps Pipeline (Kubeflow + MLflow + Prometheus):** Built an end-to-end MLOps system using Kubeflow for pipeline orchestration, MLflow for experiment tracking, Dockerized services, and Prometheus/Grafana for monitoring and automated retraining.

- **Airflow-Based ETL & ML Training Pipeline:** Designed workflow automation using Apache Airflow to orchestrate ingestion, preprocessing, feature engineering, model training, evaluation, and MLflow-driven deployment.

- **Model Monitoring with Evidently AI:** Implemented a monitoring setup to track data drift and prediction drift, integrated metrics into Prometheus, and visualized insights through Grafana dashboards.

- **AWS Serverless ETL Pipeline (S3 → Lambda → Glue → EventBridge → SNS):** Built an event-driven ETL pipeline using AWS services with automated notifications and streamlined data preprocessing.

- **Azure End-to-End MLOps Pipeline (Azure ML Studio):** Developed a complete MLOps workflow including ingestion, feature engineering, automated training, CI/CD, model registration, deployment, and performance monitoring.

- **AI Virtual Assistant (LLaMA 3.1 + Speech-to-Text + TTS):** Created an offline conversational assistant with real-time speech processing and a Streamlit interface.

- **AI Coding Assistant & Code Translator (CodeLlama + LLaMA3):** Built an AI-powered tool capable of explaining, debugging, optimizing, and translating code across languages.

Education

MSc in Software Technology *Nov 2021 – Aug 2023*
St. Aloysius Institute of Management and IT, Mangalore
CGPA: 7.48

Certifications

- Microsoft Azure AI Fundamentals (AI-900)
- Azure AI Engineer Associate (AI-102)
- IBM Machine Learning with Python
- IBM Python for Data Science

Awards

First Principle & AI Hybrid Applications for Process Efficiency and Reliability Improvement
Awarded by Ministry of Petroleum and Natural Gas, Government of India.