Akula Leelavathi

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PROFILE

Machine Learning Engineer with expertise in deploying and managing machine learning models in production. Skilled in optimizing workflows for scalability, reliability, and performance. Experienced in automating deployments, monitoring, and ensuring seamless ML operations to drive impactful solutions.

SKILLS

python • azure • Docker • aws • MLflow

PROJECTS

ParseFile – AI-Powered Text Extraction Engine

Developed **ParseFile**, an advanced text extraction engine leveraging **Google Gemini 2.0 Flash-Exp** for high-speed, high-accuracy recognition of both printed and handwritten text.
Key Features:

- AI-Powered OCR – Extracts handwritten and printed text with precision.
- 97% Accuracy – Outperforms traditional OCR solutions.
- Optimized for Speed & Scalability – Minimal latency, high efficiency.
- Versatile Applications – Supports document digitization, automated data entry, and intelligent processing

EDUCATION

IT, Vishnu Institute of Technology
2020 – 2024

PROFESSIONAL EXPERIENCE

Zotok, Machine Learning Engineer
04/2024 – present | Hyderabad

1. Real-Time Data Application Development
Developed real-time applications for data retrieval and processing across product, image, invoice, and payment parsing. Utilized PromptFlow and LLM models for optimized performance and seamless integration.

- Achieved 98% prompt efficiency with 100% response accuracy.
- Reduced manual effort, enhancing operational efficiency.
- Delivered scalable, high-performance solutions aligned with business needs.

2. Real-Time Speech-to-Text Application
Built a multilingual speech-to-text application using Google and AWS models, enhancing product search and customer interactions.

- Improved user experience with seamless multilingual navigation.
- Reduced customer support resolution times.
- Delivered a scalable, real-time solution for global accessibility.

3. Advanced Search with Cognitive Search & ML
Implemented Cognitive Search and FAISS indexing for efficient vector-based retrieval, boosting accuracy and performance.

- Enhanced search precision for better user satisfaction.
- Enabled fast, scalable, ML-driven search.
- Improved system efficiency with intelligent retrieval mechanisms.

Zotok, Software Development Intern
11/2023 – 03/2024 | Hyderabad
API Performance Monitoring (Python)
1.Developed a Python-based framework for real-time API monitoring with automated analytics, error detection, and Azure storage.

- Enhanced debugging and system stability with detailed insights.
- Reduced testing time by 70% through streamlined issue identification.
- Eliminated manual monitoring with automated reporting.

2.Automation Framework (Python + Pytest)
Built a Pytest-based automation framework for efficient testing.

- Accelerated software delivery by automating tests.
- Improved test coverage and validation.
- Minimized human error, speeding up feedback loops.