

Risha Mondal

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EDUCATION

- Future Institute of Engineering and Management** Kolkata, India
B.Tech in Computer Science Engineering — GPA: 8.7
- Kamala Girls' School** Kolkata, India
Class XII — Score: 8.5

SKILLS SUMMARY

- Programming:** Python, Java, JavaScript
- Machine Learning:** Regression, Classification, Clustering, Feature Engineering, Model Evaluation
- NLP / LLMs:** Text preprocessing, OCR pipelines, prompt engineering, multi-LLM orchestration
- Frameworks:** Scikit-learn, TensorFlow (basics), Node.js, React
- Databases:** MongoDB, SQL, Firebase
- Cloud & DevOps:** Docker, Cloud Functions, CI/CD fundamentals

EXPERIENCE

- Kyrotics** Kolkata, India
ML Engineer Mar 2025 – Present
 - NLP and Translation Systems:** Designed and implemented multilingual translation pipelines with preprocessing, inference, and post-processing stages to support scalable NLP workflows.
 - OCR Pipeline Development:** Built end-to-end OCR systems for document ingestion, text extraction, cleaning, and structured output generation, supporting batch and API-based execution.
 - Model Deployment and APIs:** Deployed machine learning models as REST APIs with authentication and role-based access control for secure production usage.
 - Multi-Model LLM Platform:** Developed a unified interface to route prompts across ChatGPT, Claude, Gemini, DeepSeek, and Mistral with response normalization logic.
 - Data Pipelines and Feature Engineering:** Implemented preprocessing and feature engineering pipelines to prepare structured and unstructured data for ML workflows.
 - Cloud Integration and DevOps:** Integrated Firebase for authentication and metadata storage, containerized services using Docker, and supported CI/CD deployment pipelines.
 - System Optimization:** Monitored deployed services and improved inference latency, reliability, and scalability.

PROJECTS

- AI Translation Pipeline:** Multilingual NLP system supporting preprocessing, translation inference, and post-processing with API-based deployment.
- OCR Processing Pipeline:** Document digitization system for OCR, text normalization, and structured data extraction.
- Multi-Model Chat Platform:** Unified chat interface integrating multiple LLM providers with routing and standardized responses.
- Expireo — Expirable URL Generator:** SaaS platform for generating time-limited URLs with analytics tracking and behavioral data collection.
- Agricultural E-Commerce Platform:** MERN-based platform connecting farmers and consumers with data pipelines useful for recommendation and demand forecasting.
- Secure Compiler Hosting Platform:** Containerized multi-language code execution environment with sandboxing and secure API routing.

CERTIFICATIONS

- SQL Assessment — HackerRank:** Validated proficiency in SQL querying and data handling.
- Full Stack Development — Ardent Computech:** Training in backend, frontend, and system design.