

Risha Mondal

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EDUCATION

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

SKILLS SUMMARY

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- **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

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- **Kyrotics** Kolkata, India
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

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- **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

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