

# Biswajeet Ray

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## SKILLS

**Languages:** Java, Python, JavaScript, SQL

**Frameworks:** LangChain, Tensorflow, FastAPI, React, Scikit-Learn, MLflow, Hugging Face Transformers

**Tools:** Git, GitHub, Docker, AWS, DVC, TensorBoard, DagsHub,

**Soft Skills:** Problem-Solving, Team Leadership, Project Management, Adaptability

## TRAINING

### Board Infinity (Edtech Company)

Jun 24 – Jul 23

- Developed a stack-based mathematical expression evaluator capable of processing infix expressions with multiple operators and parentheses.
- Formulated infix-to-postfix conversion and postfix evaluation using stack data structures.
- Created command-line tool supporting operator precedence, associativity, and nested parentheses for accurate computation.
- Achieved a reliable O(n) evaluation system demonstrating efficient use of stacks for parsing and computation.
- Tech Used:** Java, Stack data structures and Algorithm design

## PROJECTS

### Full ML Pipeline with Automated Retraining | Python, Machine Learning, Data Analysis

Nov 25

- Engineered a comprehensive, production-grade ML pipeline encompassing orchestrated data ingestion, sophisticated feature engineering, model training, evaluation, and fully automated retraining cycles.
- Integrated MLflow for rigorous experiment governance and model registry, while instituting data-drift monitoring using Evidently AI to autonomously initiate retraining workflows.
- Containerized and operationalized models via Docker and FastAPI, enabling frictionless deployment, scalable versioning, and high-performance serving.

### Knowledge Graph and LLM Hybrid AI | Neo4j, LangChain, FAISS, FastAPI

Feb 25

- Conceptualized and architected a Hybrid AI framework that synergizes Knowledge Graph reasoning with LLM intelligence, leveraging Neo4j and spaCy to craft precision-driven entity-relation extraction pipelines.
- Harnessed FAISS vector search with LangChain to deliver sophisticated hybrid RAG retrieval, substantially elevating semantic comprehension and QA accuracy.
- Deployed and production-hardened the system as a scalable FastAPI microservice, containerized with Docker for robust, cloud-ready execution.

### PDF Q&A Chatbot | LangChain, Streamlit, PyPDFLoader

Jan 24

- Designed and architected an intelligent PDF Q&A platform utilizing LangChain, FAISS, and Google Gemini to enable context-aware retrieval and synthesis of document-grounded responses.
- Orchestrated high fidelity text extraction and structured chunking via PyPDFLoader and RecursiveCharacterTextSplitter, producing enriched embeddings using Hugging Face models.
- Developed a dynamic Streamlit interface that empowers users to upload PDFs and perform real-time semantic querying with LLM-driven insights.

## CERTIFICATES

### IBM AI Engineering Professional Certificates | Coursera

Jan 25

### Cloud Computing | NPTEL

Dec 24

### GenAI for Everyone | Coursera

Mar 24

### Prompt Engineering for ChatGPT | Coursera

Mar 24

## EDUCATION

### Lovely Professional University

Phagwara, Punjab

Bachelor of Technology

Aug 21 – Jun 26

Computer Science and Engineering; CGPA: 6.7

### Zenith Lion School

Bargarh, Odisha

Intermediate

Apr 19 – Mar 21

PCM; Percentage: 84%

### D.A.V Public School

Brajrajnagar, Odisha

Matriculation

Apr 08 – Mar 19

Percentage: 90%