

Debasish Tripathy

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🌐 DebasishTripathy13

Technical Skills

Machine Learning: TensorFlow, PyTorch, Keras, scikit-learn, Hugging Face Transformers, OpenCV

Languages & Tools: Python, Java, C++, SQL, MongoDB, Docker, MLflow, Git

Web & Cloud: React, Next.js, FastAPI, Google Cloud AI, Azure ML

Professional Experience

Machine Learning Engineer

Canada

GENIE AI, INC.

04/2024 - Present

- Developed company's **AI Digital Twin** using transformer models, achieving **92% user satisfaction**([LIA](#))
- Computer vision engineered Fire Safety system with **87.62 percent accuracy** to automate property inspections
- Production-grade chatbots built using proprietary **LLMs and RAG** reduced the response time by **60%**.
- Optimized Research Copilot through fine-tuning techniques, improving **accuracy by 78%**

SWE Intern

Bengaluru, India

Adobe INC.

11/2023 - 12/2023

- Created large-scale datasets to fine-tune Adobe Firefly, **enhancing model precision** by 36%.
- Conducted data **analysis leading to 0.02% profit** increase through strategic recommendations
- implemented data augmentation and filtering techniques, improving **Firefly's content alignment accuracy by 20%**.

Business Analyst Intern

Remote

Internshala

05/2023 - 09/2023

- Analyzed business requirements and created **refined user stories for development teams**
- Conducted data **analysis leading to 0.02% profit** increase through strategic recommendations
- Implemented process improvements **optimizing project delivery timelines by 15%**

Projects

[AI Food Pantry](#)

2024

- Built food analysis system using ResNet50 for ingredient detection (**95% accuracy**)
- Implemented RAG pipeline with LangChain, reducing nutritional **query time by 40%**.
- Created recommendation system using collaborative filtering, achieving **85% success rate**.
- *Tech Stack:* PyTorch, LangChain, Pinecone, FastAPI, Redis, llama, Gemini

Other projects: Tarot card reader, Character ai, cipher slayer([debasishtripathy.me/Portfolio](#)).

[QuickHail](#)

2024

- Developed AI-enhanced **Rideshare Application** with a deep neural network for user-trip matching, achieving 92% accuracy in travel buddy recommendations.
- Integrated **LLM-based RAG** pipeline using LangChain and Pinecone, reducing user query time by 35%.
- Designed a personalized **trip recommendation engine** with collaborative filtering, increasing user engagement by 80%.
- *Tech Stack:* PyTorch, LangChain, Pinecone, Flask, Gemma, SQL

Other projects: Tarot card reader, Character ai, cipher slayer([debasishtripathy.me/Portfolio](#)).

Education

B.Tech in Computer Science and Engineering

2022 - 2026

Manipal Institute of Technology

- **Relevant Coursework:** Machine Learning, Deep Learning, Computer Vision, NLP, DSA, System Design, OS, Networking, DBMS

Achievements

- Winner of Autodesk Eduhack, Microsoft AI Odyssey India, 4th position in Walmart ML Hackathon
- Published research paper on CNN Models for Brain Activity Prediction, Energy-Efficient ML in GIS Satellite Imaging Systems
- Filed ML patent for Multimodal Cipher Decryption tool Parameters, Quantum-Enhanced Paranormal Activity Detection System,