

AISHWARAY TIWARY

MACHINE LEARNING & COMPUTER SCIENCE STUDENT

Computer Science student who loves dissecting how large-scale AI systems work under the hood. Passionate about both training models and designing the software architecture to deploy them across mobile and edge devices. Eager to bring my curiosity and passion in ML experimentation and systems integration to build scalable, user-centric AI applications.

CONTACT

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EDUCATION

Siksha 'O' Anusandhan University

B.Tech in Computer Science

Bhubaneswar, India

2023 - 2027

Coursework:

ML Practice, NLP, Introduction to AI, PySpark, DSA, Probability & Statistics, Linear Algebra.

SKILLS

Languages:

Python, SQL, C/C++

ML & AI:

PyTorch, LangChain, Hugging Face, CNNs, LLMs, Scikit-Learn

Tools & SDE:

FastAPI, PySpark, MLOps, Git/GitHub

CERTIFICATIONS

Machine Learning Specialization

Stanford Online & DeepLearning.AI
2024

AI Engineer for Data Scientist Associate

DataCamp
2026

ACADEMIC & CORE PROJECTS

Malaria Detection with CNN

2024

PyTorch

- Achieved 93.69% accuracy on a balanced dataset using PyTorch.
- Led documentation and experimental design for various model architectures.

Student Marks Prediction (Kaggle)

2026

Scikit-Learn

- Achieved a top score of 8.87 RMSE in a competitive predictive competition.
- Engineered a robust regression pipeline utilizing Lasso regression and MinMaxScaler for optimal feature scaling.

PERSONAL PROJECTS

Predictive Modeling for Agriculture

2025

Scikit-Learn

- Designed a logistic regression model to recommend optimal crops to farmers based on N-P-K soil metrics and pH levels.

RAG Chatbot for Technical Docs

2026

LangChain, OpenAI API

- Integrated car manuals with LLMs using Retrieval-Augmented Generation (RAG) and Chroma vector stores.
- Built a context-aware chatbot capable of fetching relevant car warning meanings and guiding user actions.

Analyzing Car Reviews with LLMs

2026

Hugging Face, NLP

- Prototyped a multi-functional chatbot app using state-of-the-art Hugging Face models (DistilBERT, BART).
- Automated sentiment classification (80% accuracy), text translation, and review summarization.

Multi-Input OCR Models

2026

PyTorch, Multi-modal

- Developed a multi-modal PyTorch CNN integrating both image and categorical text data inputs.
- Digitized insurance claim documents by accurately classifying primary and secondary IDs across 5 insurance types.

Deep Learning Vision Models

2026

PyTorch, Hugging Face

- **Clothing Classifier:** Built a PyTorch CNN categorizing 10 distinct garment types with 86.6% accuracy for e-commerce.
- **Food Classification:** Leveraged Hugging Face vision transformers to automate food categorization for social media platforms.