

Jiya Jain

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Computer Science student focused on Machine Learning and AI, with experience building ML pipelines and solving real-world classification problems. Strong in DSA and analytical problem-solving, with a drive to turn theory into impactful solutions.

EDUCATION

Maharaja Surajmal Institute of Technology

Bachelor of Technology in Computer Science & Engineering; CGPA: 9.22/10.0

New Delhi, IN

Graduating in 2028

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML/CSS

Machine Learning: TensorFlow, Keras, Sentence-Transformers, Scikit-learn, NLTK, Pandas, NumPy, Matplotlib

Backend & Databases: FastAPI, Node.js, REST APIs, MongoDB, SQLite, Firebase, Prisma, Streamlit

Tools & Concepts: Git, GitHub, Postman, Jupyter, Google Colab, Data Structures & Algorithms, OOP

EXPERIENCE

Summer Intern - Machine Learning

June 2026 - Present

Airports Authority of India

Safdarjung Airport, New Delhi

- Investigating NLP & deep learning methodologies to classify aviation accident reports & improve flight safety.
- Deepening knowledge of core machine learning algorithms and Large Language Model (LLM) architectures.
- Analyzing data preparation techniques, such as tokenization and topic modeling, for text-heavy datasets.

AI/ML Intern

April 2026 - Present

DomaiynLabs LLP

Remote

- Conducted AI red-teaming for the early-stage startup, researching LLM vulnerabilities and successfully extracted 250+ adversarial jailbreaks.
- Built an end-to-end firewall layer by training, evaluating, and refining a binary classification model for adversarial prompt detection, while contributing to a FastAPI inference backend enabling real-time protection of LLM applications.

PROJECTS

SpeakEZ | *FastAPI, Node.js, Gemini Live API PyTorch, sentence-transformers, MediaPipe, Prisma*

GitHub

- Engineered a real-time AI coaching platform that simulates workplace scenarios through low-latency voice interactions using the Gemini Live API with a distributed system.
- Developed a multi-modal evaluation pipeline leveraging sentence-transformer embeddings, speech fluency analysis, acoustic confidence features, and MediaPipe-based live nudges, & generated personalized performance insights.
- Implemented context-injection through dynamic ingestion of resumes, job descriptions, project documents, etc allowing the AI to adapt questioning and feedback.

Marketplace Product Image Classifier | *Python, TensorFlow, MobileNetV2*

GitHub

- Built an image classification system using MobileNetV2 transfer learning to categorize 110,000+ marketplace product images across 42 classes achieving 72.4% accuracy.
- Designed a scalable preprocessing pipeline for 10GB of image data, mitigating class imbalance and improving validation accuracy by 5%, and deployed the model through an interactive Streamlit application.

E-commerce Review Helpfulness Predictor | *Python, NLTK, Logistic Regression, TF-IDF*

GitHub

- Developed a supervised machine learning model to predict review helpfulness from 500,000+ Amazon reviews using textual & metadata-based features with cost sensitive learning & achieved 73% classification accuracy.
- Engineered an NLP pipeline with NLTK, TF-IDF, and N-gram representations for large-scale text processing.

ACTIVITIES & LEADERSHIP

LinkedIn CoachIn Mentee

Feb 2026 - June 2026

Selected amongst top 100 from 21,000+ applicants

Remote

- Engaged in 1:1 technical mentorship with a Senior LinkedIn Software Engineer.
- Mastered Data Structures and Algorithms through a rigorous curriculum & mock tests and technical communication through mock interviews.

Codess.cafe Mentee | *Part of a dedicated community for Women in STEM & their ML cohort*

Oct 2024 - Present

Volunteer at Help the Needy | *Packed and distributed essentials at Old-age homes.*

Oct 2024 - Present

CERTIFICATIONS

DeepLearning.AI: Advanced Learning Algorithms (2026) - Supervised Learning: Regression & Classification (2026) - Mathematics for Machine Learning (2025)