

ADITYA SINGH

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PROFESSIONAL SUMMARY

Agentic AI and Data Science specialist with expertise in deploying scalable ML pipelines, tuning **Large Language Models (LLMs)**, and building **advanced analytics** solutions using Python, PyTorch, and **Hugging Face Transformers**. Proven ability to optimize AI workflows and deliver impactful data-driven products. Seeking to innovate in real-world **AI applications** and drive business value through **intelligent automation**.

TECHNICAL SKILLS

- **Programming & Tools:** Python, NumPy, Pandas, Matplotlib, Seaborn, Jupyter, Git, Docker, GCP
- **AI & Machine Learning:** Agentic AI, Retrieval-Augmented Generation (RAG), LLMs, NLP, Computer Vision, Hugging Face Transformers, PyTorch, TensorFlow, Model Deployment (Flask, REST API)
- **Data Analytics:** Data Preprocessing, Predictive Modeling, Data Visualization
- **Languages:** English (Intermediate), Hindi (Fluent)

PROJECTS

PolySensor | Personal Project | [GitHub](#)

- Developed an AI-powered **multimodal** content analyzer integrating **Google Gemini** and **LangChain** with **RAG architecture** to process **50+** document types including text, audio, video, and images.
- **Containerized** and **deployed** the full-stack application **on cloud** infrastructure for scalability.
- Enhanced **prompt engineering** and **AI pipelines**, reducing content review time by **80%**.
- **Released** multiple **stable versions** with ongoing **feature** improvements **on GitHub**.

AI Content Moderation Analysis (ACMA) | Final Year Project | [GitHub](#)

- Trained **multimodal CNN** and **NLP** models for **toxic content detection** achieving **0.91 F1-score**, reducing moderation time by **40%**.
- **Automated pipelines** for **toxicity** classification, **NSFW** and **violence** detection, **OCR text extraction**, and **speech-to-text** transcription.
- Built and deployed a **Flask-based web app** and **REST API** for real-time content moderation and compliance enforcement.

PROFESSIONAL EXPERIENCE

Machine Learning Intern | CodSoft (Remote) | Aug 2024 | [GitHub](#)

- Developed and deployed **3 production-grade ML models**: Customer Churn Prediction (**86%** accuracy; **15%** churn reduction), Movie Genre Classification (**77%** precision), SMS Spam Detection (**97%** accuracy).
- Optimized **data preprocessing** for **50K+** entries reducing training latency by **20%**.

CERTIFICATIONS | [Links](#)

- **IBM Python 101 for Data Science** | Mar 2024
- **Data Science & Machine Learning** | ShapeMySkills | Dec 2023
- **Machine Learning** | NPTEL (IIT Kharagpur) | 2023

EDUCATION

Bachelor of Technology in Computer Science

Moradabad Institute of Technology (MIT), Moradabad, UP | 2020 – 2024

- **GPA:** 7.2/10 - **First Division**
- **Relevant Coursework:** Artificial Intelligence, Machine Learning

ADDITIONAL ACHIEVEMENTS

- **8x Gold Medalist** in Speed **Skating**; 1 Silver in Roll Ball
- Spotify **Artist** with **4K+ streams**
- Skilled in Data Storytelling, Business **Analysis**, **Competitive Research**, and **Continuous Learning**
- Core Strengths: Data Storytelling, **Problem Solving**, Continuous Learning