Aayushi Bhimani

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SUMMARY

M.Tech graduate from IIT Jodhpur specializing in ML, DL and Generative AI, with hands-on experience applying AI models to real-world problems. Proficient in Python and PyTorch, achieved 42nd place in the Amazon ML Challenge and excelled in multiple national-level hackathons.

EDUCATION

Indian Institute of Technology (IIT), Jodhpur — Jodhpur India
Master of Technology in Computer Science; GPA: 7.59/10 — *Aug. 2023 – June. 2025*

K. J. Somaiya Institute of Technology — Mumbai, India
Bachelor of Technology in Information Technology; GPA: 9.60/10 — *Aug. 2019 – June. 2022*

EXPERIENCE

Central Wool Development Board
Web Developer Intern — *Aug 2024 - April 2025*
- Designed and deployed a web portal on the NIC government server, resolved 15+ technical issues, and optimized front-end performance to improve load times and responsiveness.

Cognizant
Programmer Analyst Intern — *Feb 2022 - Aug 2022*
- Designed and implemented a multiclass sentiment analysis pipeline on internal employee feedback using XGBoost to classify text into 3 classes(Positive, Negative, and Neutral)achieving a F1-score of 0.87. Managed the complete ML workflow including data cleaning, feature engineering, model development, and evaluation.

PROJECTS

RAG-Driven Info Agent — March 2025
GitHub: RagInfoAgent
- Designed a multi-agent system to automate research workflows using **LangGraph**, and **CrewAI** for agent coordination
- Implemented a **Retrieval-Augmented Generation (RAG)** approach to fetch relevant information based on user queries.

Semantic Grouping of Clinical Trials (NEST Challenge by Novartis) — Jan 2025
GitHub: ClinicalTrialRetriever
- Developed an unsupervised retrieval pipeline leveraging **SentenceTransformers, UMAP, and HDBSCAN** to enable high-precision clustering and efficient **semantic search** with **FAISS**.
- Fine-tuned embeddings using **Multiple Negatives Symmetric Ranking Loss**, enhancing retrieval accuracy, domain-specific adaptation, and **top-K trial matching efficiency**.

Product Attribute Prediction from Images (Meesho Data Challenge) — Nov 2024
GitHub: ProdAttrPredictor
- Developed a deep learning model for predicting diverse product attributes (e.g., color, pattern, sleeve length) solely from product images, securing **39th rank** in this challenge.
- Achieved an **F1 score of 0.73**, optimizing model accuracy across highly imbalanced datasets and ensuring inference time remained **under 500 milliseconds per image**.

StyleGenAI: AI-Powered Fashion Design with Stable Diffusion (Myntra Hackathon) — June 2024
GitHub: StyleGenAI
- Built a **Stable Diffusion 3-based model** with **DreamBooth LoRA** for automating GenZ fashion design.
- Published a domain-specific model on Gradio, leveraging **Hugging Face Accelerate** for distributed training.

SKILLS AND CERTIFICATIONS

- **Core**: Machine Learning, Deep Learning, Generative AI, Data Structure and Algorithms
- **Technical**: Python, Java, SQL, Pytorch, Pandas, Numpy, scikit-learn, Matplotlib, Git, LangChain
- **Interpersonal**: Problem-solving, effective communication, project management, fostering teamwork
- **Certification**: LangChain for LLM Application Development – DeepLearning.AI (May 2025)