Himanshu

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Education

VIT Bhopal University — Bhopal, MP
Pursing BTech in Computer Science, Artificial Intelligence with current CGPA of 9.01 — *September 2023 – Present*

Birla School Pilani — Pilani, Rajashthan
Class XII scoring 93.60 — *April 2021 – March 2022*

Technical Skills

Programming & Databases: Python, SQL, C++

Machine Learning & Gen AI:

- **Frameworks**: TensorFlow, Keras, Scikit-learn
- **Libraries**: Pandas, NumPy, NLTK, Transformers, spaCy
- **Models**: CNNs, LLMs (Mistral-7B), LoRA Fine-Tuning

Data Visualization & Deployment: Matplotlib, Gradio, Streamlit

Certifications: Microsoft Azure Data Fundamentals, IBM Watsonx (Gen AI), Oracle OCI AI Foundations

Experience

Machine Learning intern — March 2025 – Present
amas.QIS — *Remote*

• Engineered a product recommendation system for the banking sector by fine-tuning a Large Language Model (LLM) using Low-Rank Adaptation (LoRA), resulting in a 15% improvement in recommendation relevance.

• Performed comprehensive data cleaning and preprocessing on large customer datasets (over 50,000 entries) using Python and NumPy to prepare for model training.

• Developed and generated highly specific prompts from the cleaned data to guide the LLM's recommendation logic, utilizing the Transformers library.

Projects

Bollywood Bias Buster: AI-Powered Gender Bias Analysis — June 2025 – Present
NLP and Multimodal AI Project — *Python,Transformers, spaCy, Gradio*

• Developed an end-to-end system to detect, quantify, and remediate gender bias in movie scripts

• Utilized Mistral-7B for stereotype classification, achieving accuracy of 97% and text remediation, and spaCy for NER

• Automated the generation of PDF bias reports and deployed a Gradio web interface for real-time analysis

AI-Powered Farmer Assistance Platform — September 2024 – January 2025
Full-Stack AI Application — *Python, Streamlit, TensorFlow, Scikit-learn*

• Engineered a full-stack AI application generating data-driven insights for farmers, featuring modules for plant disease detection (CNN with 95% accuracy), and fertilizer(Naive Bayes 98%) and crop recommendations(Random Forest 95%).

• Implemented three core AI modules for plant disease detection (CNN), and fertilizer and crop recommendation systems.

• Designed an intuitive user interface that allows farmers to upload images for real-time disease diagnosis and receive actionable recommendations.

Leadership & Activities

Core Design Team Member — September 2024 – Present
Google Developer Student Clubs (GDSC)

• Led the design and execution of promotional materials and AI & ML for multiple workshops and hackathons, increasing student participation by 30%.

• Mentored a team of junior designers, providing guidance on design principles and tools, fostering a collaborative and skill-building environment.