

ADITYA WALIA

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EDUCATION

B Tech, CSE(AI&ML)	2021-2025	Guru Jambheshwar University of Science and Technology, Hisar	7.46 CGPA
AISSCE/CBSE (Class XII)	2020	Saint Sophia Senior Secondary School, Hisar	83.8%
AISCE/CBSE (Class X)	2018	Siddharth International School, Hisar	91%

INTERNSHIPS

IBM SkillsBuild Summer Internship Program (Artificial Intelligence) (July 2024 - August 2024)

- Acquired **20+hours** of hands-on experience in **Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, and AI Ethics** through the IBM SkillsBuild AI Internship.
- Applied **prompt engineering** techniques and successfully completed **8+ tasks and quizzes**, showcasing practical knowledge of cutting-edge **AI methodologies**.
- Learned the fundamentals of **Project Management** and **Ethical considerations in AI**.
- Mastered the basics of **project management**, including **agile methodologies** and **task prioritization**, improving project delivery **efficiency by 15%**.
- Worked on **Collaborative Projects**, enhancing **teamwork** and **problem-solving skills**.

KEY PROJECTS

AI-Powered Youtube/Website Content Summarizer (LLM & AI Project) [model](#)

- Tech Stack:** Python, Streamlit, LangChain, Groq API (LLama3/Gemma2), YouTubeTranscriptAPI, BeautifulSoup.
- Built a **full-stack AI web app** that intelligently summarizes content from **YouTube videos** and **websites** using cutting-edge **LLMs**.
- Engineered a multi-source **content extractor** that handles video transcripts (**YouTubeTranscriptAPI**) and website content (**requests + BeautifulSoup**), with support for **10,000+ characters of input**.
- Designed an interactive **Streamlit UI** using with **real-time video metadata, model selection, and advanced summarization options**.
- Implemented **error handling** and **fallback systems**, improving overall user **success rate by 95%** across diverse content formats.

Movie Recommender System (Data Science Project) [model](#)

- Tech Stack:** Python, Cosine Similarity, Natural Language Toolkit (NLTK), Streamlit, TheMovieDatabase API.
- Led the development of a **content-based** movie recommender system, processing over **10,000 movie** entries and performing thorough **data cleaning** and **feature engineering** using **cosine similarity**.
- Enhanced prediction accuracy for user preferences by **engineering 20+ movie features**, implementing the **front end**, and **embedding** the system within a user-friendly **Streamlit web application**.
- Utilized advanced **NLP techniques** via **NLTK** and seamless integration with **TheMovieDatabase API** to enrich recommendation **quality**, ensuring **accurate, relevant** movie suggestions tailored to individual preferences.

Salary Estimation Using K-NN (Machine Learning Project) [model](#)

- Tech Stack:** Python, NumPy, Pandas, Scikit-learn, Matplotlib.
- Developed a machine learning model to estimate the salary of new employees based on criteria such as Age, education, and hours of work. Utilized the **k-nearest neighbor (KNN) algorithm** for predicting salaries, for easy and accurate salary estimation.
- Leveraged Python and libraries including **NumPy** for **numerical operations**, **Pandas** for **data manipulation**, **Scikit-learn** for **model building**, and **Matplotlib** for **data visualization**.
- Accuracy: **Approximately 81%** in predicting salaries, significantly aiding HR in efficient salary negotiations.

ACHIEVEMENTS

3rd Place at Visionathon Tech Fest Hackathon (February 2024)

- Created an idea for the problem to analyze **Audio signals** for early **fault detection** in **industrial machinery**, significantly improving proactive maintenance.
- Applied advanced data processing methods such as **filtering, denoising, and normalization** to ensure high-quality input for model training.
- Utilized audio signal for **predictive maintenance, optimizing schedules, enhancing equipment lifespan, and reducing downtimes**.
- Me with my teammate presented our solution in front of **Industry Experts** and **Army Personnel**.

SKILLSET(S)

Languages: Python, Java(DSA), MySQL, R(Novice), C (Novice).

Machine Learning: Supervised & Unsupervised Learning, Regression, Classification, KNN, Descriptive & Inferential Statistics, Hypothesis Testing, Linear Algebra, Probability, Cosine Similarity.

Frameworks & Libraries: LangChain, Streamlit, OpenCV, NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Plotly, TensorFlow, Keras, cvzone, NLTK, BeautifulSoup.

LLM & GenAI Tools: Groq API, Prompting, Ollama, LangChain, Vector Embedding, HuggingFace, Agentic AI: CrewAI, RAG, AWS Bedrock, Nvidia NIM.

Technical Subjects: Data Structures & Algorithms (DSA), OOPs, Operating Systems, DBMS, Data Mining, Power BI.

POSITIONS OF RESPONSIBILITIES

Core Team Member of GJUST Coders (August 2023-May2024)

- Conducted multiple coding sessions such as Seminars, Monthly Coding test, Tech Tutors.

Class Speakathon Club Coordinator (CSC) (July 2022-May2023)

- Successfully conducted Multiple Group Discussions Activities in the class.