

Diwan Singh Chauhan



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[Portfolio](https://diwansinghchauhan.github.io/portfolio/) :- diwansinghchauhan.github.io/portfolio/

Objective

To work in a dynamic and innovative tech environment where I can apply my skills in Python programming, data science, machine learning, deep learning, NLP and computer vision. I aim to contribute to real-time AI solutions by developing and deploying models using frameworks like TensorFlow and PyTorch. I am eager to work on end-to-end ML pipelines, model optimization and domain-specific applications such as object detection, face recognition and predictive maintenance.

Skills Summary

- **Data Science:** Python, Machine Learning Algorithms, Data Analysis, Data Visualization, NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn, Statistics, Analytics, Streamlit, TensorFlow, Keras, PyTorch, CNN, RNN, LSTM, Transfer Learning, Deep Learning, Natural Language Processing, Hugging Face, Generative AI, Transformers, LangChain, Computer Vision, OpenCV, Machine Learning, AI, ML
- **Soft Skills:** Collaborator, Planner, Problem Solver, Analytical Thinking, Multi-tasker, Adaptable, Strong Verbal & Written Communication

Internship

- **Machine Learning Intern** [CERTIFICATE](#)

LogicLens Solutions Private Limited | 07/2024 – 12/2024

- Designed and implemented real-time computer vision systems for facial recognition, object detection and video analytics using YOLO and FaceNet models.
- Developed and optimized deep learning models with TensorFlow, PyTorch and OpenCV.
- Collaborated with cross-functional teams to integrate AI models into real-world applications.
- Gained hands-on experience in video analytics and real-time surveillance systems.

Projects

- **LangChain based Chatbot using Ollama's Mistral model** [LINK](#)
 - Uses essential building blocks: PromptTemplate, LLM and StrOutputParser for clean and maintainable pipelines.
 - Run powerful open-source LLMs like Mistral completely offline using Ollama.
 - Visualize and debug each step of your LangChain flow using LangSmith's developer-friendly dashboard.
- **Next Word Prediction Using LSTM** [Link](#)
 - Used the WikiText-2 dataset, a curated collection of high quality Wikipedia articles.
 - Text data is tokenized, converted into sequences and padded to ensure uniform input lengths.
 - LSTM model is constructed with an embedding layer, two LSTM layers and a dense output layer with a softmax activation function.
 - Model is trained using the prepared sequences, with early stopping implemented to prevent overfitting.
- **IMDB Movie Review Sentiment Analysis** [Link](#)
 - Built a sentiment analysis model to classify IMDB movie reviews as Positive or Negative.
 - Used text preprocessing, word embeddings and a Simple RNN based architecture.
 - Trained the model using binary cross-entropy loss with accuracy optimization.
 - Deployed the model via a Streamlit web app for real time user interaction.
- **Creating Automatic GIFs from Videos** [Link](#)
 - This project automates the process of creating GIFs from video files.
 - It extracts audio, detects silences, transcribes them, and generates high-quality GIFs with text overlays.
 - Powered by Python with libraries like moviepy, pydub, and Whisper for transcription, it simplifies the creation of engaging GIFs from your video content.
 - Perfect for social media, tutorials, and presentations

- **Book Recommender System** [Link](#)
 - This is a machine learning project built using python and flask app.
 - It uses collaborative filtering and popularity-based filtering techniques to provide personalized movie recommendations.
 - The system is deployed on Render, making it easily accessible via a web interface. Users can explore and discover movies based on their preferences and past ratings.
- **Laptop Price Predictor Project** [Link](#)
 - Created a tool to predict laptop prices using linear regression.
 - Developed a user-friendly interface with Streamlit to make it easy for users to interact with the predictor.
 - Successfully deployed the app on Streamlit Community Cloud for wider accessibility.
 - Demonstrated skills in machine learning, software development, and cloud deployment through this project.

Certifications

- Python Core Programming Course (05/2023 - 07/2023) [CERTIFICATE](#)
- Expert in Machine Learning & Data Analysis (07/2023 - 12/2023) [CERTIFICATE](#)

Academic Credentials

- **M.Tech. (Data Science)**
Defence Institute of Advanced Technology, Pune (2023-2025) with 7.90 CGPA
- **M.Tech. (Metallurgical and Materials Engineering)**
IIT ROORKEE (2014-2016) with 7.088 CGPA.
- **B.Tech. (Mechanical Engineering)**
Galgotias College of Engineering & Technology (2009-2013), Secured 72.74% marks

Personal Details

- **Linguistic Abilities:** English, Hindi
- **Nationality:** Indian