

# Shubhang Dhawan

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## Profile

- Familiarity in **Python** and **OOPs** concepts, also hands on experience in libraries such as **NumPy and Pandas**. Build APIs with **Flask** and implementing **POST** and **GET** requests, used **Postman** for testing, and integrating APIs with databases for data handling.
- Worked with **RAG and vector embeddings** for **similarity search**, using **OpenAI API** for AI text generation. Used **Prompt Engineering** to optimize prompts for accurate, domain-specific outputs.
- Basic knowledge in building and training **Machine Learning** models, performed **Hyperparameter tuning, Feature engineering**, and utilizing algorithms such as **Regression and Classification**. Familiarity with model evaluation metrics such as **Precision, Recall, F1 score**.
- Familiarity in **NLP** with **Spacy** and **NLTK**, knowledge in **Text preprocessing, Tokenization, Stemming, Lemmatization, POS tagging, NER**, and **Syntactic parsing**.

## Education

Master's in Data Science, Chandigarh University 2022 – 2024

Bachelor's in Science, CSJM Kanpur University 2019 – 2022

## Work History

AI/ML Intern | Times Now | Bennett, Coleman & Co. Ltd Nov 2024 – Feb 2025  
Noida

- AI-Powered Article Generation Based on Editor's Persona Implemented **Azure GPT-4o, Azure Cosmos DB, and Azure AI Search** with **vector embeddings** to generate articles matching the **editor's persona and 5W1H approach**.
- AI-Driven News Video Translation, Transcription, and Hindi AI Voiceover using OpenAI API, GenAI voiceover, and transcription models.
- Car Specifications Chatbot on WhatsApp using **Meta API, GPT-4o Mini, and RAG** with vector-based similarity search to provide car specifications from **Times Drive data**.

LLM Engineer | Frontera Health - Internship Mar 2024 – Oct 2024  
Remote

- Worked with the team, building a **GenAI Chatbot** for the Health & Wellness sector using **RAG, Semantic search** concepts
- Used **MongoDB Atlas** and **LlamaIndex** for knowledge base to store embeddings & vectors, improving query handling for **RAG** search, also used **LLMs API** like **Mistral AI 7b Instruct** and **GPT 3.5 Turbo**.

## Skills

Machine Learning | Python | Natural Language Processing | MySQL | Flask | Google Cloud

## Personal Projects

Retriever Argumented Generation for the book '48 Laws of Power' [🔗](#)

NewsFeed Harmony [🔗](#)

Collaborative-Filter-Approach [🔗](#)

## Certificates & Publications

Machine Learning -Analytics  
Vidhya [🔗](#)

An Enhancement of online Drug  
Recommendation with BGFT-DBi-  
LSTM- IEEE [🔗](#)

Ethical Implications of AI in  
Healthcare - IJSREM [🔗](#)