

CHANDRAKANT CHOUDHARY

11, Patrakaar Colony — Ashok Nagar Sarkanda, Bilaspur (C.G.) – 495006

📞 7974473704 ✉️ sonu.aps1998@gmail.com 🔗 [linkedin.com/in/chandrakant-choudhary-260818178](https://www.linkedin.com/in/chandrakant-choudhary-260818178) 🐙 github.com/chanducn

Objective

- Data Scientist with strong practical experience in building AI solutions using real-world datasets and end-to-end system design.
- Proficient in Python-based ML/DL development with hands-on experience in tools like **Gradio**, **Streamlit**, **OpenCV**, and **XGBoost**.
- Built intelligent systems such as *Duplicate Question Detection (Quora)* using NLP + **XGBoost** and *Fight/Anomaly Detection in CCTV Videos* using **YOLOv8** + **ConvLSTM**.
- Experienced with advanced LLMs and frameworks including **GPT-4**, **Mistral-7B (Ollama)**, **LLaMA 3**, **LangChain**, and **LangGraph**.
- Skilled in agentic AI flows, computer vision, automation tools, and full **MLOps/LLMOps** pipelines for scalable deployment.
- Passionate about designing intelligent, user-centric, and data-driven applications in fast-paced, innovation-driven environments.

Education

Guru Ghasidas Central University	Nov 2022 – Dec 2024
Masters of Computer Application – Bilaspur, Chhattisgarh	
Mats University	Sep 2016 – Dec 2019
Bachelor of Computer Application – Raipur, Chhattisgarh	
Sanskar Public School	May 2016
Senior Secondary – Raigarh, Chhattisgarh	

Relevant Coursework

- | | | |
|--------------------|-------------------------------|-------------------------------------|
| • Machine Learning | • Agentic AI Systems | • Time Series Forecasting |
| • Deep Learning | • Natural Language Processing | |
| • Generative AI | • Computer Vision | • Data Visualization & Storytelling |

Technical Skills

- **Languages:** Python
- **Tools/Platforms:** VS Code, Jupyter Notebook, PyCharm, Spyder, Git, GitHub, MS Excel, Tableau, Streamlit Cloud, Ollama
- **Cloud & Big Data:** Microsoft Azure ML, Azure ML Pipelines, Databricks, PySpark
- **Database:** MySQL
- **Libraries/Frameworks:**
 - **Data Science & ML:** NumPy, Pandas, Seaborn, Matplotlib, Scikit-learn, XGBoost, LightGBM, SciPy, Pandas Profiling
 - **Deep Learning:** TensorFlow, PyTorch, Keras, Theano
 - **Computer Vision:** OpenCV, MediaPipe, YOLO, Haar Cascade Classifier
 - **NLP:** SpaCy, NLTK, Gensim, Hugging Face Transformers
 - **LLMs & Generative AI:** LangChain, LangGraph, Hugging Face Transformers, GPT-3/4, Mistral-7B (Ollama), LLaMA 3, Gemini, Prompt Engineering, BERT, ChatGPT, AutoGen, Transformers Agents

- **Web & GUI:** Streamlit, Gradio, Tkinter, FastAPI, Flask
- **Automation & Others:** PyAutoGUI, Pycaw, SpeechRecognition, BeautifulSoup
- **MLOps:** MLflow, GitHub Actions, Azure ML Pipelines, CI/CD Pipelines, DVC, Weights and Biases
- **LLMOps:** LangSmith, LangGraph

- **Concepts & Techniques:**

- **Supervised Learning:** Linear & Logistic Regression, KNN, SVM, SVR, Naive Bayes, Decision Trees, Random Forest, Gradient Boosting, PCA
- **Unsupervised Learning:** K-Means, Hierarchical Clustering, DBSCAN
- **Deep Learning Architectures:** CNN, RNN, ANN, LSTM
- **NLP Techniques:** Tokenization, Lemmatization, NER, Word Embeddings, Sentiment Analysis, Text Classification
- **Transformers & Agentic AI:** Prompt Engineering, Context-aware Chains, RAG, LLM Agents
- **Generative Models:** GANs, VAEs
- **Data Science Workflow:** EDA, Feature Engineering, Data Preprocessing, Hyperparameter Tuning, Regularization (L1/L2)

- **Soft Skills:** Analytical Thinking, Problem Solving, Adaptability, Collaboration, Communication, Research-Oriented

Projects

Duplicate Question Detection on Quora Dataset | *Python, NLP, CountVectorizer, XGBoost* April 2025

- Built a binary classification model to detect semantically similar question pairs using Quora dataset.
- Preprocessed text using tokenization, stopwords removal, and generated pairwise features like fuzzy ratios, word overlaps, and token count differences.
- Achieved **81% accuracy** using **XGBoost** classifier with CountVectorizer and manual feature engineering.
- Deployed the model using **Docker** and automated the pipeline with **GitHub Actions**, hosted on **AWS EC2** for real-time inference.

Anomaly Event Detection in CCTV Footage | *YOLOv8, OpenCV, ConvLSTM, Python* May 2025

- Designed an end-to-end anomaly detection system to identify fight/violent events from surveillance video feeds.
- Utilized **YOLOv8** for real-time person detection and **ConvLSTM** to capture spatio-temporal patterns across frame sequences.
- Achieved **92% F1-score** on validation set using RWF-2000 dataset with 2-class classification (fight / non-fight).
- Overlaid bounding boxes on detected persons in video frames — green (normal), red (fight) — for intuitive visualization.

Certifications

- **Full Stack Data Science Program** – Naresh i Technologies *Jan 2025 – July 2025*
- **Intermediate Machine Learning Certificate** – Kaggle Learn *May 2025*