

Dhruv Garg

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EDUCATION

BML Munjal University

Bachelor of Technology in Computer Science

Gurgaon, Harayana

Aug. 2023 – Present

EXPERIENCE

Software Engineer Intern

Blostem

Jun. 2026 – Present

On-site

- Designing and developing a full end-to-end RAG pipeline processing 10K+ documents to enable intelligent, context-aware query responses with under 2s average retrieval latency.
- Implementing document ingestion, chunking, and embedding workflows using LangChain and LlamaIndex, reducing retrieval noise by 30% through optimized chunk sizing and overlap strategies.
- Integrating Hugging Face models and OpenAI API as generation backbone, improving response relevance by iterating on 15+ prompt templates and embedding configurations.

Data Analyst Intern

Digital Blinc

Nov. 2025 – Dec. 2025

Remote

- Cleaned and preprocessed 20K+ rows of business data using Pandas, resolving missing values, outliers, and format inconsistencies to ensure downstream data integrity.
- Built 5+ interactive dashboards using Matplotlib to surface key business trends, enabling data-driven decisions across 3 business verticals.
- Automated repetitive data cleaning workflows via Python scripts, cutting manual preprocessing time by 40%.

PROJECTS

AI vs Real Image Detector | *Python, TensorFlow, Keras, OpenCV, SciPy, Streamlit*

Feb 2026 – May 2026

- Designed a deep-learning image forensic classifier using EfficientNetV2-B0 combined with FFT frequency-domain analysis to distinguish AI-generated images from real photographs.
- Achieved 95–97% detection accuracy by applying Grad-CAM visualizations, advanced image preprocessing, and fine-tuning techniques to enhance model interpretability and robustness.
- Deployed the solution as an interactive Streamlit web application enabling real-time image authenticity detection with visual explanation overlays.

AI-Powered Interview Analysis System | *Python, MediaPipe, LangChain, FastAPI*

June 2025 – Aug 2025

- Developed an end-to-end AI platform that extracts 15+ behavioral metrics including gaze tracking, posture detection, blink rate, and facial emotion recognition from interview videos using OpenCV and MediaPipe.
- Built a Retrieval-Augmented Generation (RAG) pipeline using LangChain and ChromaDB to generate structured, context-aware interview feedback, served via FastAPI REST endpoints.
- Delivered an interactive Streamlit dashboard enabling real-time visualization of behavioral metrics and downloadable AI-generated candidate evaluation reports.

Flight Crash Data Analysis | *Python, Pandas, NumPy, Matplotlib, Scikit-learn*

Jan. 2025 – Apr. 2025

- Analyzed 50K+ aviation incident records across 70+ years of historical data to identify key crash risk factors, seasonal patterns, and operator-level trends.
- Trained and evaluated 5 machine learning models including Random Forest, XGBoost, and Logistic Regression, achieving 89% prediction accuracy on crash risk classification.
- Produced comprehensive data visualizations using Matplotlib to present findings and model performance metrics in a clear, stakeholder-friendly format.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, Java, C++, HTML/CSS

Frameworks: FastAPI, Streamlit, React.js, Node.js, LangChain, LangGraph

Developer Tools: Git, Docker, Google Cloud Platform, AWS (S3, EC2, Lambda), VS Code, PyCharm

AI/ML Libraries: TensorFlow, Keras, Scikit-learn, OpenCV, MediaPipe, Pandas, NumPy, Matplotlib, SciPy

GenAI & RAG: OpenAI API, Hugging Face, FAISS, ChromaDB, Pinecone, LlamaIndex, Prompt Engineering