

ABHINAV JAJOO

AI/ML Engineer | Data Analyst | Data Engineer | Problem Solver with Production Mindset

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ABOUT

I'm a data-driven AI/ML engineer who turns chaos into clarity. From building multimodal deception detection systems to automating NLP pipelines that process over 150K social media comments, I work end-to-end — **data acquisition, model building, and insight delivery**. My strength lies in building **scalable, production-aware systems** that translate directly into business impact.

Currently seeking opportunities where I can help teams move faster using AI, automation, and data storytelling.

EXPERIENCE

Business & Data Analyst Intern

FUDR | May 2024 – July 2024

Onsite | Tools: Python, SQL, Power BI, Excel, Web Scraping

- Increased customer reach by 20% through data-backed engagement strategies and targeted user research.
- Scraped and structured a dataset of 600+ brands and 500 clients to enable internal analytics.
- Developed a CRM management app to streamline client interactions. Designed a data-driven strategy to enhance client acquisition and retention.
- Designed real-time dashboards using automated pipelines to track KPIs and uncover actionable insights
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KEY PROJECTS

◆ Multimodal Deception Detection System

GitHub: [Deception Detection Repo](#)

Tools: BERT, SVM, MFCC, MediaPipe, Python

- Built a model combining text (BERT), audio (MFCC), and facial features (MediaPipe) to detect deception.
- Achieved 83% accuracy (text) and 72% combined modal accuracy.
- Preprocessed 1,200+ video samples and synchronized multi-modal inputs.

◆ Breast Cancer Classification with Grad-CAM

GitHub: [Breast Cancer Project](#)

Tools: EfficientNetB0, TensorFlow, Grad-CAM, Python

- Trained model on CBIS-DDSM mammograms using advanced preprocessing and augmentation.
- Achieved 93% test accuracy and visualized model decisions using Grad-CAM.
- Implemented cross-validation to reduce overfitting.

◆ Real-Time Sentiment Analysis Pipeline

GitHub: [Sentiment Pipeline Repo](#)

Tools: Apache Airflow, Docker, Power BI, Python

- Built a fully automated NLP pipeline that processed 150K+ YouTube and Reddit comments.
- Performed deep learning-based sentiment classification with over 90% accuracy.
- Created interactive Power BI & Tableau dashboards for real-time insight.
- Automated entire pipeline using Airflow, reducing manual workload by 95%.

TECHNICAL SKILLS

Programming & Data: Python, Java, SQL, C, Pandas, NumPy, Scikit-learn

Machine Learning: TensorFlow, Keras, BERT, Grad-CAM, Transfer Learning, Deep Learning, SVM

NLP & Vision: HuggingFace, MediaPipe, MFCC, BERT embeddings

Data Engineering: Apache Airflow, Apache Spark, ETL Pipelines, Docker, Web Scraping

Visualization & BI: Power BI, Tableau, KPI Dashboards, Matplotlib

Tools & Platforms: Git, GitHub, Jupyter, VS Code, Google Colab

Cloud Basics: Azure App Service, Azure Storage (Learning: AWS)

EDUCATION

JK LAKSHMIPAT UNIVERSITY

B.Tech – Computer Science & Engineering

2022-2026

Relevant Coursework: Machine Learning, Deep Learning, Large Language Models (LLMs), Artificial Intelligence, Computer Vision (OpenCV), Big Data, DBMS, Cloud Computing, Data Structures

CURRICULAR ACTIVITIES

- **Patent pending:** Arduino-based Multi-Sensory Museum System (Hardware + UX Design)
- **Event Coordinator**, JKLU Spardha Fest — Managed 5+ events, led logistics for 500+ participants
- **5★** in Java & C on HackerRank