# GAURAV VIJAY JADHAV

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## SUMMARY

AI Engineer with hands-on experience designing, building, and deploying end-to-end computer vision and NLP solutions. Proficient in developing high-performance applications using Python, TensorFlow, and PyTorch, with expertise in real-time video analysis, medical imaging, and modern LLM-powered systems using LangChain. Committed to building scalable and production-ready AI systems by leveraging MLOps tools like Docker, DVC, and CI/CD pipelines.

## INTERNSHIP EXPERIENCE

**Data Science Intern – Code B Solutions Pvt Ltd.**
Remote Internship | Feb 2025 – Apr 2025
- Built a phishing website detection system using machine learning.
- Applied full data science lifecycle: EDA, feature selection, modelling, tuning, and deployment.
- Developed a Streamlit web app for real-time phishing URL classification with version control using DVC.

## CASE STUDY EXPERIENCE

**British Airways Data Science Job Simulation on Forage (**certificate**)**                    **April 2025**
- Scraped and analysed customer review data.
- Developed a predictive model to identify drivers of customer purchase behaviour.

## TECHNICAL SKILLS

- **Languages & Libraries:** Python (Pandas, NumPy, Matplotlib, Seaborn), SQL, OpenCV
- **Machine Learning & AI:** Scikit-learn, TensorFlow, Keras, CNN, ANN, NLP, LangChain, LLM API
- **MLOps & Deployment**: AWS (EC2, SageMaker, S3) Docker, MLflow, DVC, GitHub Actions, Streamlit, Poetry
- **Dev Tools & Platforms:** Git, GitHub, DagsHub, Power BI, Advanced Excel, VS Code, Jupyter
- **Core Concepts:** CI/CD, RAG, Agentic Reasoning, LLM

## PROJECTS

**Project VICTUS: Voice AI Chat Assistant with RAG and Dynamic Tooling (**project link**)**
🛠 **Tech Stack: Python, FastAPI, Langchain, FAISS, Whisper, Piper TTS, Tavily, Docker, Microsoft Graph API.**
- Architected and deployed a production-grade AI assistant featuring a FastAPI web interface and persistent conversational memory.
- Implemented a robust LangChain AgentExecutor with a Gemini model for advanced reasoning, enabling dynamic tool selection for complex workflows including real-time web search and system-level UI automation.
- Engineered a persistent RAG pipeline using a FAISS vector store and integrated secure Microsoft Graph API tool for robust Q&A on user documents and productivity data (Outlook Email & Calendar).
- Designed a clean, decoupled architecture separating AI logic from the web server, ensuring a maintainable, scalable, and cloud-deployed system containerized with Docker.

**VisionX: Real-Time Facial Attendance System** (project link**)**
🛠 **Tech Stack: SQLite, Python, OpenCV, Dear PyGui, FAISS, Transformers, ONNX, Poetry**
- Architected an end-to-end facial attendance system in Python to automatically track individuals in real-time, using a person re-identification cache to maintain session integrity through temporary occlusions.
- Enhanced the system with multi-modal analysis by integrating Hugging Face Transformers to provide real-time demographic insights, including facial expression and age estimation.
- Designed a high-performance, multi-threaded desktop dashboard with Dear PyGui, featuring a GPU-accelerated interface for fluid video visualization, live log updates, and integrated security alerts.

**Kidney Disease Classification Using Deep Learning (**project link**)**
🛠 **Tech Stack: Keras, TensorFlow, OpenCV, Docker, MLflow, DVC (GCP), AWS EC2**
- Bpuilt a CNN model using VGG16 to classify kidney diseases from CT scan images with high accuracy.
- Used MLflow for experiment tracking and DVC for version-controlled data pipelines.
- Containerized the Flask inference app with Docker and deployed on AWS EC2.
- Automated CI/CD pipeline with GitHub Actions for seamless model updates.

**Phishing Website Detection Using Machine Learning | CodeB Internship (**project link**)**

⚒ **Tech Stack: Python, Scikit-learn, XGBoost, Streamlit, GridSearchCV, GitHub Actions, DVC (GCP)**
- Engineered 85+ URL-based features and trained an XGBoost model (95.6% accuracy, 0.99 ROC-AUC).
- Applied advanced feature selection techniques (Random Forest, RFE, VIF) for optimal performance.
- Used SHAP and LIME to add explainability and improve model transparency.
- Deployed a real-time Streamlit web app with CI/CD using GitHub Actions and DVC on GCP.

## EDUCATION

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|---|---:|
| **Bachelor of Engineering (B.E.) in Computer Engineering** | **7.83 CGPA** |
| UNIVERSITY OF MUMBAI | 2024 |
| **HIGHER SECONDARY CERTIFICATE (HSC)** | **63.38%** |
| Maharashtra State Board | 2019 |

## PROFESSIONAL COURSES

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|---|---:|
| **Master in Data Science and Analytics with Artificial Intelligence (certificate)** | **June 2024 - Jun 2025** |
| IT Vedant Education | IBM | Kalyan |

## CERTIFICATES AND BADGES (view Credentials)

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|---|---:|
| IBM Deep Learning with TensorFlow (certificate) | Aug 2025 |
| IBM Machine Learning with Python (certificate) | June 2025 |
| IBM Python for Data Science (certificate) | June 2025 |
| Databricks Academy Generative AI Fundamentals (certificate) | June 2025 |
| IBM Data Analysis with Python (certificate) | October 2024 |

## ACHIEVEMENTS

**Paper Publication: *"A Framework to Make Voting System Transparent Using Blockchain Technology".***
- Journal: *International Journal for Research in Engineering Application & Management (IJREAM)*
- ISSN: 2454-9150 | Vol. 10, Issue 01, April 2024
- DOI: 10.35291/2454-9150.2024.0261 | Paper ID: IJREAMV10SSJ2411

## VOLUNTEERING

**National Service Scheme (NSS) | Volunteer (2 Years)**
- Led community development initiatives and participated in leadership training programs.
- Organized and executed social awareness campaigns at the college and local level.

**Association of Computer Engineering Students (ACES) | Head of Technical Committees**
- Managed technical operations for departmental and college-level events.
- Led a team in organizing workshops, hackathons, and coding competitions.