GAURAV VIJAY JADHAV

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SUMMARY

AI Engineer skilled in Python, Machine Learning, deep learning, and computer vision with experience in medical imaging and CNN-based modeling. Proficient in Scikit-Learn, TensorFlow, Keras, and OpenCV, with hands-on expertise in MLOps tools like Docker, DVC, and Streamlit. Strong focus on building scalable, explainable, and production-ready AI systems across healthcare and data-driven domains.

INTERNSHIP EXPERIENCE

Data Science Intern – Code B Solutions Pvt Ltd.s
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 (underline)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:** Scikit-learn, TensorFlow, Keras, XGBoost, ANN, CNN, NLP
- **MLOps & Deployment**: Docker, MLflow, DVC, GitHub Actions, Streamlit, Flask, AWS EC2, GCP
- **Tools & Platforms:** Git, GitHub, DagsHub, Power BI, Advanced Excel, PowerPoint
- **Concepts:** Feature Engineering, Model Explainability (SHAP, LIME), CI/CD, RAG (LangChain)

PROJECTS

Jarvis-AI – Offline Personal AI Powered Voice Assistant (project link**)**
Tech Stack: Python, Vosk (Offline STT), Porcupine, SentenceTransformers, LangChain, ChromaDB, HuggingFace, Ollama (LLaMA 3), Docker
- Developed a modular offline-first AI assistant with wake word detection, **offline STT via Vosk**, and transformer-based semantic intent classification.
- Integrated LangChain RAG pipeline with ChromaDB for persistent multi-document QnA, contextual summarization, and long-term memory.
- Handled system tasks like opening/closing apps via dynamic skill routing with LLM (LLaMA 3) fallback.
- Enabled real-time voice interaction with TTS, centralized logging, and Docker-based local deployment.

Kidney Disease Classification Using Deep Learning (project link**)**
Tech Stack: Keras, TensorFlow, OpenCV, Docker, MLflow, DVC (GCP), AWS EC2
- Built 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

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

Master in data science, Data Analytics with Artificial Intelligence (certificate**)**	**June 2024 - Jun 2025**
IT Vedant Institute	Kalyan

CERTIFICATES

Data Analysis with Python (certificate**)**	**October 2024**
IBM Developer Skills Network, IT Vedant Institute	Kalyan

Data Science 360 (certificate)	**September 2023 (1 Month)**
FUTURESKILL PRIME	Online Training

Generative AI Fundamentals (certificate)	**June 2025**
Databricks Academy	Online Training

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.