

MALAIKA IMRAN

Islamabad, Pakistan

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PROFESSIONAL SUMMARY

AI & Machine Learning Engineer with hands-on experience designing, developing, and deploying machine learning and deep learning solutions. Experienced in Computer Vision, CNNs, predictive analytics, FastAPI deployment, and AI-powered applications. Worked as an AI Engineer, Lab Engineer, AI Intern, and Freelance Developer delivering production-ready AI solutions. Microsoft Certified in Azure AI Fundamentals with strong knowledge of Python, TensorFlow, Scikit-learn, REST APIs, and cloud AI services.

TECHNICAL SKILLS

Programming Languages: Python, SQL, Dart

Machine Learning: Scikit-learn, TensorFlow, Keras, CNN, Transfer Learning, Classification, Regression, Feature Engineering, Hyperparameter Tuning

Computer Vision: OpenCV, Image Processing, Iris Recognition

Data Science: Pandas, NumPy, Matplotlib, Data Cleaning, Data Visualization

Deployment: FastAPI, REST APIs, Docker, Git, GitHub

Cloud: Microsoft Azure AI Fundamentals, Azure AI Services

PROFESSIONAL EXPERIENCE

Abasyn University

Lab Engineer

Sep 2025 – Present

Islamabad

- Conduct practical labs for Programming, OOP, Data Structures, and AI-related subjects.
- Mentor students in machine learning projects, debugging, and software development.
- Evaluate projects, lab assessments, and technical presentations.

Virtual Soft Technologies

AI Engineer

Nov 2025

Islamabad

- Developed AI-based software solutions and contributed to machine learning workflows.
- Performed data preprocessing, model testing, and AI solution optimization.
- Collaborated with development teams to integrate AI-powered features into software products.

YoungDev

AI & Machine Learning Intern

Jun 2025 – Jul 2025

Remote

- Built machine learning models including Linear Regression, Random Forest, and CNN architectures.
- Developed FastAPI endpoints for deploying trained models.
- Improved model accuracy through feature engineering and hyperparameter tuning.

Freelance AI Developer

AI Developer

2024 – Present

Remote

- Developed predictive analytics and image classification solutions for international clients.
- Built reusable Python modules for AI applications and rapid prototyping.

Status200 Pvt Ltd

Flutter Developer Intern

Jun 2023 – Aug 2023

Remote

- Developed Flutter applications and integrated REST APIs.
- Collaborated with QA teams to improve application performance and reliability.

PROJECTS

Iris Detection Banking Security System

- Developed a biometric authentication system using Convolutional Neural Networks (CNN) and OpenCV for iris recognition.
- Implemented image preprocessing, iris segmentation, feature extraction, and classification pipeline.
- Integrated the trained model with FastAPI to provide RESTful API endpoints for secure authentication.
- **Technologies:** Python, TensorFlow, Keras, OpenCV, FastAPI, NumPy

Brain Tumor Detection using Deep Learning

- Built a deep learning model to classify brain MRI images as tumor or non-tumor using CNN architecture.
- Performed image preprocessing, augmentation, model training, and evaluation using standard performance metrics.
- Improved classification performance through hyperparameter tuning and transfer learning techniques.
- **Technologies:** Python, TensorFlow, Keras, OpenCV, NumPy

Fake News Detection using Machine Learning

- Developed an NLP-based machine learning model to classify news articles as genuine or fake.
- Applied text preprocessing techniques including tokenization, stop-word removal, and TF-IDF vectorization.
- Compared multiple machine learning algorithms including Logistic Regression, Naive Bayes, and Random Forest.
- **Technologies:** Python, Scikit-learn, Pandas, NumPy, NLTK

Machine Learning Model Deployment with FastAPI

- Developed RESTful APIs for serving machine learning models using FastAPI.
- Implemented request validation, inference pipelines, error handling, and API documentation.
- Prepared Docker-ready deployment workflow with Git-based version control for production environments.
- **Technologies:** FastAPI, Python, Uvicorn, Docker, Git, GitHub

EDUCATION

Abasyn University <i>BS Software Engineering</i>	2020 – 2024 <i>Islamabad</i>
Khallar Khar Science College <i>FSc Pre-Engineering</i>	2018 – 2020

CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals (AI-900) — Microsoft (2026)
- AI & Machine Learning Specialization — YoungDev (2025)
- Artificial Intelligence Training — NAVTTC (2025)
- Digital Skills Certification — NAVTTC
- Korean Culture & Language Program — King Sejong Institute (2023)

LANGUAGES

English (Fluent)
Urdu (Native)
Korean (Basic)