Ayesha Khan

Nationality: Pakistani | **Phone number:** (+92) 3145964707 (Mobile) | **Email address:** ayesha.k.jadoon@gmail.com |

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https://github.com/ayeshajadoon

EDUCATION AND TRAINING

20/09/2020 – 12/07/2024 Haripur, Pakistan

BACHELOR OF SCIENCE IN COMPUTER SCIENCE The University of Haripur

Website https://www.uoh.edu.pk/ | **Field of study** Computer Science | **Final grade** 1.05/5.00 (DE) or 3.97/4.00 (US) |

Level in EQF EQF level 6 | **Thesis** BarristerBot, Your GenAI based Legal Advisor

Link https://github.com/ayeshajadoon/BarristerBot

WORK EXPERIENCE

COLAB IT SOLUTIONS (PRIVATE) LIMITED

Link https://tinyurl.com/nmayknsm

AI RESEARCHER – 01/05/2025 – 03/09/2025

- Developed different agentic AI workflows and designed an AI-based calling agent for automated dentist appointments.
- Built responsive landing pages and email templates using Vibe Coding, along with CGI video ads leveraging AI tools.
- Implemented a scalable Google Maps scraper to extract thousands of business leads efficiently.

JADOON TECHNOLOGIES LLC – ABBOTTABAD, PAKISTAN

Link https://tinyurl.com/4yer88ch

AI ENGINEER INTERN – 01/10/2024 – 01/01/2025

- Built and fine-tuned neural networks and ML models, optimizing performance through data preprocessing.
- Developed a multilingual AI-powered customer support system for a laptop manufacturer, integrating RAG and tool-calling for efficient query resolution.

SKILLS

Programming Languages

Python | JavaScript | C++

Frameworks & Tools

Pytorch | Tensorflow | LangChain | Llama Index | Streamlit

Generative AI Technologies

Large Language Models | Diffusion Models | Prompt Engineering | Agentic AI Workflows

Databases

ChromaDB | Fiass | SQL

Web Technologies

Html/css | Flask | FastAPI

Deployment Platforms

Hugging Face Spaces | Vercel | Microsoft Azure

AI Techniques

Fine-tuning with custom data | Retrieval Augmented Generation (RAG) | vector embedding | neural network optimization | Vibe Coding

Traditional AI

Computer Vision | NLP | Machine Learning | Deep Learning | DNN

Project Management Tools

Jira | Asana | Click Up

Soft Skills

Analytical thinking | problem-solving | Team Work | Effective Communication

KEY PROJECTS

BarristerBot, GenAI based Legal Advisor

An AI-powered legal advisor developed with an LLM and RAG pipeline to provide accessible legal assistance in Pakistan. The system uses ChromaDB for data storage and Next.js for the user interface. It also integrates text-to-speech capabilities, making legal advice more accessible and easier to understand.

Link https://github.com/ayeshajadoon/BarristerBot

AI Calling Agent for Dentist Appointments

Designed and developed an AI-powered calling agent to automate dentist appointment scheduling. Built with n8n for workflow automation, Twilio for telephony integration, ElevenLabs for lifelike text-to-speech, and OpenAI API for natural language understanding. The system enables human-like conversations, processes patient requests, and confirms bookings in real time, reducing manual staff workload and improving booking efficiency.

Link https://github.com/ayeshajadoon/Dentist-Appointment-Calling-Agent-

Play Store Review Analyzer for Requirement Extraction and Sentiment Analysis

Built a tool that extracts functional and non-functional requirements from Google Play Store reviews and classifies them as positive or negative. The system fetches reviews by entering an app link, using web scraping and NLP techniques with Python, BiLSTM, and spaCy to help developers gain insights into user feedback.

EmoVision: CNN based Emotion Detection System

A facial expression recognition system using PyTorch and Convolutional Neural Networks (CNNs) to classify emotions from facial images with high accuracy. Implemented data preprocessing, model training, and evaluation using standard emotion datasets.

Link https://coursera.org/verify/DNVESZFBHEUC

NeuroSeg: Segmentation of Brain Tumor

Developed a brain tumor detection system using U-NET for image segmentation to accurately identify and highlight infected areas in MRI scans. Focused on medical image preprocessing, model training, and evaluation for effective tumor localization.

Link https://coursera.org/verify/FDJ9DH7B87A3

LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	C1

CERTIFICATES

27/01/2025

Generative AI for Everyone, DeepLearning.ai

Gained foundational knowledge of generative AI, including its applications, lifecycle, prompt engineering, and practical use cases for individuals and businesses.

Link https://coursera.org/verify/IB4L2WBVFMF0

11/09/2023

Supervised Machine Learning: Regression and Classification, DeepLearning.ai

Learned to build and train supervised machine learning models for regression and classification using Python, NumPy, and scikit-learn, with hands-on experience in linear and logistic regression, feature engineering, and model evaluation.

Link https://coursera.org/verify/NZ7SVFNDH8V2

08/08/2023

AI for Everyone, DeepLearning.AI

Acquired a solid understanding of AI fundamentals, its real-world applications, ethical considerations, and strategies for implementing AI in organizations.

Link https://coursera.org/verify/T9Q32442J879

25/07/2023

Generative AI by Microsoft and LinkedIn, Microsoft

Learned fundamentals of Generative AI, Artificial Intelligence, and Computer Ethics through Microsoft and LinkedIn's Career Essentials in Generative AI.

Link https://tinyurl.com/nhzw3pkh

16/03/2022

PCAP: Programming Essentials in Python, OpenEDG Python Institute

Completed PCAP: gaining proficiency in Python programming, OOP, data structures, file handling, and standard library usage."

Link https://tinyurl.com/586vptfu

11/2021 – 07/2022

Data Science by Jawan Pakistan

Completed a comprehensive online Data Science course, gaining practical skills in data analysis, statistical modeling, Python programming, machine learning, data visualization, and handling real-world datasets.

Link https://tinyurl.com/3prh8sjh