

Hamna Iqbal

Nationality: Pakistani | **Phone number:** (+92) 3319591183 (Mobile) | **Email address:**

hamnaiqbal44.official@gmail.com | **Website:** <https://hamna-iqbal.vercel.app/> | **LinkedIn:**

<https://www.linkedin.com/in/hamna-iqbal-a9334a226/> | **Github:** <https://github.com/HamnaIqbal44>

● EDUCATION AND TRAINING

21/09/2020 – 05/07/2024 Haripur, Pakistan

BS SOFTWARE ENGINEERING Pak-Austria Fachhochschule Institute of Applied Sciences and Technology

Website <https://paf-iaast.edu.pk/> | **Field of study** Software Engineering | **Final grade** 1.75/5.00 (DE) or 3.50/4.00 (US) |

Thesis Sentiment Analysis of Software Requirements in Social Media Platform

● WORK EXPERIENCE

LAB ENGINEER – PAK-AUSTRIA FACHHOCHSCHULE INSTITUTE OF APPLIED SCIENCES AND TECHNOLOGY –

30/09/2024 – Current – HARIPUR, PAKISTAN

Email: hamna.iqbal@paf-iaast.edu.pk | **Website:** <https://paf-iaast.edu.pk/> | **Link :** <https://tinyurl.com/2vyntxea>

Working as a Lab Engineer, I design and deliver hands-on lab systems for Data Structures & Algorithms, Database Systems, Programming Fundamentals, Operating Systems, and ICT, bridging theoretical concepts with practical implementation and debugging workflows. I also develop lab manuals, practical assignments, semester projects, and assessment rubrics aligned with course objectives and CLOs/OBE standards, while mentoring students in debugging, database querying, process control, and data structure based problem solving to enhance practical learning and evaluation consistency.

WEB DEVELOPMENT INTERN | FYP COLLABORATOR – BRAINSWARMS ROBOTICS, UNIVERSITY OF ENGINEERING AND TECHNOLOGY (UET) –

01/08/2023 – 30/07/2024 – TAXILA, PAKISTAN

Links : <https://tinyurl.com/7wartjxr> | <https://tinyurl.com/c4cd5sh5>

Worked as a Web Development Intern and collaborated on an industry-backed Final Year Project, where I created multiple front-end web interfaces using HTML, CSS, JavaScript, and Bootstrap, with emphasis on clean design, layout structuring, responsiveness, and user-friendly interaction. In parallel, I contributed to a project on sentiment analysis of software requirements, applying Python, NLP, NLTK, Ollama LLM, and Streamlit to analyze user reviews and identify areas for software improvement.

AI & MACHINE LEARNING INTERN – SINO-PAK CENTER FOR ARTIFICIAL INTELLIGENCE, PAF-IAST –

25/06/2022 – 07/08/2022 – HARIPUR, PAKISTAN

Link : <https://tinyurl.com/u8sn6vnt>

Worked on the Intellisurv Project, applying Python and machine learning techniques to real-world datasets and developing interactive Streamlit dashboards for effective visualization and interpretation of predictive results. This experience strengthened my skills in data analysis, visualization, and teamwork through hands-on use of Pandas, Matplotlib, and Seaborn in an AI-focused environment.

PYTHON DEVELOPMENT INTERN – KAWIISH IT SERVICES –

19/08/2021 – 15/09/2021 – ABBOTTABAD, PAKISTAN

Link : <https://tinyurl.com/f2tecu7c>

Completed a 6-week internship in Python Development, where I built a strong foundation in Python programming through hands-on practice with core concepts, scripting, coding, debugging, and logical problem-solving tasks. The

internship also provided early exposure to a professional software development environment and strengthened my understanding of structured programming.

● SKILLS

Programming Languages

C++ | Python | SQL | JavaScript

Web Technologies

HTML | CSS | Bootstrap | React | NextJs | PHP | MongoDB

Data Analytics and Visualization

Streamlit | Beautiful Soup | Pandas | Plotly | Numpy | Seaborn | Matplotlib

Machine Learning and AI

TensorFlow | PyTorch | scikit-learn | Transformers | NLTK | LangChain | OpenCV | Ollama | CNN | RNN | YOLOv11 | YOLOv12

Tools and Platforms

Git/GitHub | Draw.io | Office 365 | Visual Studio Code | Creately | PyCharm | MySQL Workbench | Jupyter Notebook | Postman | ClickUp | Kaggle | Figma | Lucidchart | Google Colab | Overleaf | Roboflow | Visual Paradigm | Visual Studio | StarUML | Loveable | Hugging Face Spaces | vercel | Microsoft Azure

● PROJECTS

16/10/2023 – 30/05/2024

Sentiment Analysis of Software Requirements in Social Media Platform

Developed an automated Python-based analysis tool to collect Google Play Store reviews using BeautifulSoup, perform sentiment analysis with NLTK and Ollama's LLM, and extract software quality insights, user pain points, and areas for improvement. The project also included a Streamlit dashboard to visualize review trends and feedback patterns, helping support software maintenance and requirement refinement decisions.

Link <https://github.com/Hamnalqbal44/Sentiment-Analysis-of-Software-Requirements-in-Social-Media-Platform-FYP-.git>

Game Recommendation System for Steam Data Set

Designed a recommendation system using the Steam dataset to analyze user preferences and suggest relevant games based on behavioral or content-based patterns in the data. The project involved data preprocessing, feature analysis, and recommendation logic to improve personalization, with the goal of helping users discover games aligned with their interests and interaction history.

Link <https://colab.research.google.com/drive/1DDtu4stQPoNSKVj0aq7UYSDcY6ZgRMg8?usp=sharing>

A CNN-Based YOLO Framework for Robust Visual Inspection Under Varying Lighting Conditions

Developed a computer vision framework that combines CNN-based feature learning with YOLO for robust visual inspection in challenging lighting environments. The project focused on improving object detection reliability under brightness variations, making the system more suitable for practical inspection scenarios where lighting inconsistency can reduce model accuracy and detection stability.

Link https://colab.research.google.com/drive/18yWpFuC8IMyvZdQmsdhAw1HrC_XGDLHy?usp=sharing

Responsive Web UI Components and Layout Design

Designed and implemented responsive web interface components, including cards, carousels, navigation bars, and jumbotrons, with emphasis on layout structure, usability, and visual consistency. The project strengthened front-end development skills and practical understanding of reusable UI design.

Link <https://github.com/Hamnalqbal44/responsive-web-ui-components.git>

Full-Stack E-commerce Web Application (MERN Stack)

Developed a full-stack e-commerce web application using the MERN stack with product categories such as electronics, books, and fashion. Implemented user authentication, shopping cart functionality, and MongoDB integration to support dynamic data handling and core e-commerce operations.

Link <https://github.com/Hamnalqbal44/mern-ecommerce-master.git>

● LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s):

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

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● CERTIFICATIONS

hp LIFE, 04/04/2026

AI for Beigneers

Link <https://tinyurl.com/uw5wwd47>

hp LIFE, 04/04/2026

Data Science and Analytics

Link <https://tinyurl.com/5rsuujan>

IEEE Student Chapter, 20/08/2022

Intro to Git and Github

Link <https://tinyurl.com/yw9vpec8>

DigiSkillsDev Society, 05/02/2022

Event Organizer

Link <https://tinyurl.com/4vy4tn25>

Ushers Event and Management Society, 30/12/2021

Admission Campaign for year 2021

Link <https://tinyurl.com/2wvtu2yb>

● HONOURS AND AWARDS

Dean's List of Honors – Pak-Austria Fachhochschule Institute of Applied Sciences and Technology

- Awarded merit scholarships and placed on the **Dean's List of Honors** for outstanding academic achievement in **Fall 2020, Fall 2022, Fall 2023, and Spring 2024.**

Links <https://paf-iaast.edu.pk/wp-content/uploads/2024/11/Deans-Honor-List-Fall20.pdf> | <https://paf-iaast.edu.pk/wp-content/uploads/2024/11/Deans-Honor-List-Fall-22.pdf> | <https://paf-iaast.edu.pk/wp-content/uploads/2024/11/Deans-Honor-List-Fall-23.pdf> | <https://paf-iaast.edu.pk/wp-content/uploads/2024/11/Deans-Honor-List-Spring-24.pdf>