

Muhammad Arish Khan

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My Portfolio: marishkhan.vercel.app

EDUCATION

- FAST National University** Karachi, Pakistan
• *Bachelor of Science - Artificial Intelligence; GPA: 3.04/4.0* Aug 2022 - Aug 2026
Courses: Artificial Intelligence, Machine Learning, Deep Learning, Recommendation Systems, Neural Networks, Networking, Data Structures, Data Analysis Of Algorithms, Databases, Object Oriented Programming Language, Operating Systems, Web Programming(Started)
- Government Degree College Malir Cantt** Karachi, Pakistan
• *Higher Secondary School Certificate (Intermediate) — Grade: A+ - 86* Sep 2020 - Sep 2022
- Army Public School Malir Cantt** Karachi, Pakistan
• *Matriculation School Certificate — Grade: A+ - 91* Sep 2007 - Sep 2020

SKILLS SUMMARY

- **Languages:** Python, C++, JavaScript, HTML, CSS
- **Frameworks:** Scikit-Learn, NLTK, SpaCy, TensorFlow, React
- **Tools:** Figma, AdobeXD, GIT, MySQL, SQLite, Oracle
- **Platforms:** Linux, Web, Windows
- **Soft Skills:** Leadership, Event Management, Writing, Time Management

EXPERIENCE

- ZAYSCO BUSINESS WORKS** Karachi, Pakistan
• *AI Developer* 1st Dec 2024 - 31st Jan 2025
 - **Responsibilities:** Developing and optimizing machine learning models for real-world applications. Implementing and fine-tuning deep learning architectures. Conducting data preprocessing, feature engineering, and model evaluation..
[Click to view LetterHead](#)

PROJECTS

- **Multi-Layer Neural Network — Python, Streamlit:** This project involves implementing a multi-layer neural network from scratch. The aim is to explore the workflow, methodology, and performance of neural networks while addressing challenges in training, evaluation, and optimization. This report documents the complete process, from network setup to final findings and conclusions. .
[Click to see GitHub Repository](#)
- **Book Recommendation System using AI Algorithms — Python:** Implemented a recommendation system using collaborative filtering and content-based filtering techniques to suggest books based on user preferences. [Click to see GitHub Repository](#)
- **Online Inventory Management System — Python, Jupyter Notebook, SQLite, Machine Learning Model Regressor :** The primary objective of the Inventory Management System (IMS) is to provide a comprehensive, user-friendly software solution that streamlines inventory management processes for retail businesses. By centralizing the management of products, suppliers, employees, and sales transactions, the IMS aims to enhance operational efficiency, reduce errors, and improve overall productivity. Prediction is done using machine learning model using Random Forest Linear Regressor
[Click to see GitHub Repository](#)

- **My Portfolio Website — HTML, CSS, JavaScript, React:** Developed a personal portfolio website showcasing my projects, skills, and experience using React for a dynamic and interactive user experience. [Click to see GitHub Repository](#)
- **CSP Flight Scheduling System — AI, CSP Techniques:** Developed an AI-based flight scheduling system using constraint satisfaction problem (CSP) techniques to optimize flight schedules and minimize delays. [Click to see GitHub Repository](#)
- **Comparison between Multiprocessing and Multithreading via Sorting and Searching Algorithms — Python:** Conducted a comparative study of multiprocessing and multithreading using various sorting and searching algorithms, analyzing performance and efficiency. [Click to see GitHub Repository](#)
- **Online Banking System — Java:** Designed and developed an online banking system with functionalities for account management, transaction processing, and security features. [Click to see GitHub Repository](#)
- **Groovy Music System — Data Structures, Algorithms:** Built a music recommendation system using data structures and algorithms, enhancing user experience through personalized music suggestions.

HONORS AND AWARDS

- Certificate of Accomplishment (SQL) - HackerRank (2024)
[Click to view Certificate](#)
- Certification of Internship - ZAYSCO BUSINESS WORKS (2024-2025)
[Click to view Certificate](#)
- Deploy Azure AI services — learn.microsoft.com (2024)
[Click to view Certificate](#)

VOLUNTEER EXPERIENCE

- **Participated in Flagship events: PROCOM and DEVDAY at FAST NUCES KARACHI (2023 and 2024):** Contributed to organizing major events, gaining exposure to the tech industry and networking opportunities.
- **Interviewed leading Software Houses including TPS, HBL, IBEX, Avanza, and SYSTEMS:** Engaged with top companies, gaining valuable industry insights and expanding my professional network.
- **Works as Team Leader For Coding Competition.:** Organized and Managed Hackathons for passionate Computer Science enthusiasts .