

Abdul Rafay Ashfaq

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Lahore, Pakistan

EXPERIENCE

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| Machine Learning Intern DevelopersHub Corporation | <i>Jun 2025 – Jul 2025</i> |
| | <i>Remote</i> |
| <ul style="list-style-type: none">Developed RAG-based conversational AI agents for medical and mental health diagnostics.Fine-tuned LLMs with HuggingFace Trainer API and constructed Python scripts for real-time user interaction.Executed end-to-end data pipelines, including Exploratory Data Analysis (EDA) and data cleaning, on clinical datasets to identify key features for heart disease classification.Trained regression models for house/stock price forecasting, implementing time-series analysis on preprocessed metrics. | |
| Web Developer Intern Premier NX | <i>Jun 2025 – Aug 2025</i> |
| <ul style="list-style-type: none">Architected responsive, user-friendly frontend interfaces for an academic portal utilising PHP Laravel.Implemented full-stack CRUD functionality, ensuring real-time data synchronisation with a MySQL backend. | <i>Lahore, Pakistan On-site</i> |
| Python Developer Intern Softsines | <i>May 2025 – Jul 2025</i> |
| <ul style="list-style-type: none">Completed comprehensive data science training, mastering Pandas and NumPy for data preprocessing. | <i>Remote</i> |

EDUCATION

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| Bachelor of Science (B.S.) in Computer Science FAST National University of Computer & Emerging Sciences | <i>Aug 2027</i> |
| | <i>Islamabad, Pakistan</i> |
| <ul style="list-style-type: none">Coursework: Data Structures, Database Systems, Design & Analysis of Algorithms, Object-Oriented Programming, Computer Networks, Artificial Intelligence, Web Programming, Software Design & Analysis, Information Security | |

PROJECTS

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| Game-Playing Agent for TORCS |
| <ul style="list-style-type: none">Automated a car racing simulation using PyTorch and scikit-learn, implementing a Random Forest model to achieve autonomous driving based on telemetric data.Trained the model on sensor-based input to optimise speed and steering in dynamic racing environments.Implemented real-time decision-making and performance evaluation to enhance accuracy and responsiveness. |
| Ultimate Tic-Tac-Toe |
| <ul style="list-style-type: none">Developed a player vs. AI Tic-Tac-Toe game in Python, incorporating the Minimax Algorithm with Alpha-Beta Pruning for efficient decision-making.Applied advanced Constraint Satisfaction Problem (CSP) techniques to enforce game rules and logic.Refined user experience through an interactive Tkinter GUI, enhancing gameplay realism and competitive challenge. |
| XONIX |
| <ul style="list-style-type: none">Programmed a GUI-based arcade game with single-player and two-player modes utilising C++ and SFML.Implemented algorithms for player movement, dynamic territory capturing, and enemy AI in single-player mode.Optimised user experience with responsive controls, real-time scoring, and engaging visual feedback. |
| Hospital Management System |
| <ul style="list-style-type: none">Built a full-stack HMS using React for the frontend and Node.js with MongoDB for the backend.Developed comprehensive modules for patient management, appointments, and medical records.Implemented secure user authentication and role-based access control using JSON Web Tokens (JWT). |
| Personal Website |
| <ul style="list-style-type: none">Designed a personal web portfolio with HTML, CSS, and JavaScript. Hosted via GitHub Pages.Integrated external pull requests to enhance the website's content and cross-device compatibility. |

SKILLS

Web Development Tools: HTML, CSS, JavaScript, React, Node.js, MongoDB, PHP, Laravel

Game Development Tools: Unity, SFML (Simple & Fast Multimedia Library)

Programming Languages: C++, Python, Java, SQL (MySQL), x86 Assembly

CERTIFICATIONS

Google AI Essentials Specialisation – Google • Introduction to Artificial Intelligence – University of Illinois Urbana-Champaign • Introduction to Generative AI for Developers with Copilot – Microsoft