

# Abdul Rafay Ashfaq

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Islamabad, Pakistan

## EXPERIENCE

<b>Machine Learning Intern</b> <b>DevelopersHub Corporation</b>	<i>Jun 2025 – Jul 2025</i>
	<i>Remote</i>
<ul style="list-style-type: none"><li>Engineered conversational AI agents for medical and mental health diagnostics using NLP techniques.</li><li>Fine-tuned LLMs with HuggingFace Trainer API and developed Python scripts for real-time user interaction.</li><li>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.</li><li>Trained regression models for house/stock price forecasting, implementing time-series analysis on preprocessed metrics.</li></ul>	
<b>Web Developer Intern</b> <b>Premier NX</b>	<i>Jun 2025 – Aug 2025</i>
	<i>Lahore, Pakistan   On-site</i>
<ul style="list-style-type: none"><li>Architected responsive, user-friendly frontend interfaces for an academic portal utilising PHP Laravel.</li><li>Implemented full-stack CRUD functionality, ensuring real-time data synchronisation with a MySQL backend.</li></ul>	
<b>Python Developer Intern</b> <b>Softsincs</b>	<i>May 2025 – Jul 2025</i>
	<i>Remote</i>
<ul style="list-style-type: none"><li>Completed comprehensive data science training, mastering Pandas and NumPy for data preprocessing.</li></ul>	

## EDUCATION

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

## PROJECTS

<b>Automated Game-Playing Agent for TORCS</b>
<ul style="list-style-type: none"><li>Automated a car racing simulation using PyTorch, integrating a Random Forest Model for autonomous driving behaviour to extract telemetric data.</li><li>Trained the model on sensor-based input to optimise speed and steering in dynamic racing environments.</li><li>Implemented real-time decision-making and performance evaluation to enhance model accuracy and responsiveness.</li></ul>
<b>Ultimate Tic-Tac-Toe</b>
<ul style="list-style-type: none"><li>Developed a player vs. AI Tic-Tac-Toe game in Python, incorporating the Minimax Algorithm with Alpha-Beta Pruning for efficient decision-making.</li><li>Applied advanced Constraint Satisfaction Problem (CSP) techniques to enforce game rules and logic.</li><li>Refined user experience through an interactive GUI, enhancing gameplay realism and competitive challenge.</li></ul>
<b>XONIX</b>

<ul style="list-style-type: none"><li>Created a classic arcade game with modern GUI and gameplay mechanics using C++ with SFML.</li><li>Programmed player movement, enemy AI, and dynamic territory capturing logic using DSA concepts.</li><li>Enhanced user experience with responsive controls, real-time scoring, and engaging visual feedback.</li></ul>
<b>Hospital Management System</b>

<ul style="list-style-type: none"><li>Built a full-stack HMS using React.js for the frontend and Node.js with MongoDB for the backend.</li><li>Implemented secure user authentication and role-based access control using JSON Web Tokens (JWT).</li><li>Developed comprehensive modules for patient management, appointments, and medical records.</li></ul>
<b>SKILLS</b>

**Web Development Tools:** HTML, CSS, JavaScript, React.js, 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](#)