

Muhammad Afaan

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CAREER OBJECTIVE

Passionate about **AI** and **ML**, focusing on building intelligent agents and automation systems using machine learning and problem-solving. Seeking opportunities to apply my skills in real-world applications.

EDUCATION

National University of Science and Technology, Islamabad <i>Bachelor of Science in Data Science Current CGPA: 3.19</i>	Sept 2023 – Sept 2027
Kips College, Multan <i>HSSC Pre-Engineering</i>	Aug 2021 – Aug 2023
Nishat Boys High School, Multan <i>SSC Science Group</i>	Aug 2019 – Aug 2021

VOLUNTEER EXPERIENCE

CHADDAR – NUST WELFARE SOCIETY	Sep 2024 – Present
- Actively contributed as a member of the Street Store initiative, organizing clothing and food donation drives for underprivileged communities.	
NUST CULTURAL FESTIVAL	Sep 2024 – Present
- Served as a Security Team Member, ensuring smooth and safe execution of the multi-day campus-wide event.	
HAMMI CAMPAIGN	Sep 2024 – Present
- Worked as a Finance Member, facilitating the collection and management of donations for humanitarian causes.	

Certifications

MACHINE LEARNING SPECIALIZATION	by DeepLearning.AI
- A foundational program focusing on supervised learning, deep learning, and practical machine learning applications.	
WHAT IS DATA SCIENCE?	by IBM
- An introductory course exploring the core concepts and career landscape of data science.	
NETWORKING BASICS	by Cisco
- A primer on networking principles, protocols, and essential tools for communication technologies.	
INTRODUCTION TO MICROSOFT EXCEL	by Coursera
- A practical course designed to build fundamental skills in data organization, formulas, and spreadsheet analysis.	

Research and Projects

Survival FPS Game Unreal Engine 5
- Developed a first-person survival shooter using Unreal Engine 5, featuring AI enemies, health mechanics, and a fully functional inventory system using C++ and Blueprints.
Maze Game C++ Console Project
- Created a dynamic maze game using C++ with randomized generation and user-interactive console controls.
POS & Inventory System Java & Swing
- Designed a complete point-of-sale and inventory management system with role-based login using Java Swing and SQLite.
Air Pollution Analysis Across Cities Data Science Project
- Conducted data preprocessing and extensive exploratory data analysis (EDA) on WHO air quality datasets.
- Analyzed pollutant distributions, temporal trends, and city-level patterns while comparing data to WHO guidelines.
- Applied statistical and visual techniques to extract insights, with modeling and feature selection used to explore prediction approaches.
T20 Runs Predictor Machine Learning Project
- Developed a cricket runs prediction model using ensemble methods including XGBoost.
- Performed data cleaning, feature engineering, and EDA to inform model design.
- Tuned hyperparameters and evaluated model performance using regression metrics.
Predicting Learning Disabilities Advanced Statistics & ML
- Built predictive models to identify learning disabilities in children based on behavioral assessment data.
- Performed detailed statistical analysis, feature selection, and model evaluation to aid early intervention strategies.

Skills

- Teamwork, Collaboration, Leadership
- Critical Thinking, Adaptability, Fast Learner
- Data Science, Artificial Intelligence, Machine/Deep Learning, NLP
- Languages: Python, C/C++, Java
- Front End: JavaScript, HTML/CSS
- Data Analysis, ML: NumPy, Pandas, Matplotlib, Seaborn, ScikitLearn, Nltk