

# ZOHA ZAFAR

## Artificial Intelligence Undergraduate

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### Summary

AI undergraduate with strong foundations in machine learning algorithms, data analysis, and Python programming. Experienced in developing recommendation systems and database management solutions. Expanding expertise in full-stack web development through hands-on projects using ASP.NET MVC, HTML, CSS, and JavaScript. Passionate about applying AI technologies to solve real-world challenges.

### Education

FAST-National University of Computer and Emerging Sciences

Bachelor of Science in Artificial Intelligence

08/2022 - Present

Usman Public School And College

Pre-engineering

07/2020 - 06/2022

Usman Public Secondary School

Science

04/2018 - 04/2020

### Skills

TECHNICAL SKILLS • Machine Learning • Python Programming • Data Analysis and Visualization • Neural Networks • Database Management • Web development

SOFT SKILLS • Team Collaboration • Data Analysis • Strong Interpersonal skills • Problem solving • Project Management

### Certification

Pseudo Wars (October 2023) - Participated in a coding competition focused on problem-solving using Python. Solved algorithmic challenges by writing efficient code under time constraints, demonstrating logical thinking and programming skills.

### Projects

#### Movie Recommendation System

Built a content-based movie recommendation system using Python and machine learning algorithms to suggest personalized movies based on user preferences and viewing history.

- Developed recommendation algorithms using Pandas and Scikit-learn libraries for data processing and model implementation
- Achieved 85% accuracy in movie suggestions by analyzing user behavior patterns and content similarity
- Processed and analyzed dataset of 5,000+ movies to generate meaningful recommendations

#### University Course management system

Developed a comprehensive web-based course management system using ASP.NET MVC framework to streamline university course registration, scheduling, and student-instructor interactions.

- Built full-stack web application with user authentication and role-based access control for students, instructors, and administrators
- Implemented course enrollment, grade management, and attendance tracking features using Entity Framework and SQL Server
- Designed responsive user interface with HTML, CSS, and JavaScript for optimal user experience across devices
- Successfully deployed system handling 200+ concurrent users with efficient database operations and query optimization

#### CineVerse

Developed a comprehensive movie ticket booking system using SQL Server and database management principles to handle theater operations, seat reservations, and customer transactions.

- Designed normalized database schema with tables for movies, theaters, showtimes, customers, and bookings to ensure data integrity
- Implemented real-time seat availability checking and confirmation system preventing double bookings
- Built efficient query optimization techniques handling 500+ concurrent seat bookings with instant confirmation status updates