



# NAYEF ALAM



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## EDUCATION

Pr-Primary to High school (CBSE)  
[International Indian Public School](#)

Class X – 87% | Class XII – 89%  
2008–2021  
Riyadh, SA

B.Tech CSE Specializing in AI and DS  
[Woxsen University](#)  
2021 – 2025  
Hyderabad, IN

## SKILLS

- Python
- Java
- SQL
- Machine Learning
- Tableau

## TOOLS

- OpenCV, YOLO
- SciKit – learn, ARFF
- Pandas, NumPy
- MongoDB, Excel

## CERTIFICATIONS

- OOPs in Java –Coursera June 2023
- Machine Learning –Coursera March 2024
- IBM Data Analyst Professional Certificate –Coursera September 2023
- Natural Language Processing using Python –Udemy February 2024

## ACHIEVEMENTS

- Class Representative 2021
- College Sports Club Executive
- SOT Vice President 2023
- Gaming Club President 2022
- Model at TEDx, Mood Indigo 2023,
- Football Team Captain
- Toastmasters Speaker 2018–2020

## CAREER OBJECTIVE

A proactive and relentless Computer Science student, the definition of grit, with crystal-clear communication skills. Skilled in Machine Learning, Data Science, and Python libraries, I thrive in challenging environments, embrace innovation, and aim to deliver impactful solutions while continuously learning and excelling in team settings.

## WORK EXPERIENCE

### IDZ Pvt Ltd.

March 2023 – May 2023

#### Game Developer

- Developed prototypes and gameplay mechanics in Unity, enhancing skills in C# and object-oriented programming (OOP).
- Designed save game and camera transition algorithms, with insights into 3D AR development.
- Enhanced code efficiency and responsiveness with refactoring, performance profiling, and asynchronous programming.

### Singularium

February 2024 – June 2024

#### Jr Analyst

- Digitized invoices using Python (Pandas, NumPy) and Excel, applying data mining principles
- Enhanced data processing and tagging skills through analysis and updates.
- Recognized as the top performer, effectively leading a team of 3 interns and demonstrating strong analytical skills.

## PROJECTS

### Bankruptcy Prediction

- Used Scikit-learn for Stratified K-Fold cross-validation, achieving ~91% sensitivity with classification and regression models.
- Applied feature scaling and normalization using Pandas, NumPy, and ARFF for efficient preprocessing.
- Gained expertise in Machine Learning model evaluation, sensitivity analysis, and data processing through practical implementation.

### Football Analysis using Computer Vision

- Utilized OpenCV for precise player and ball tracking, applying Canny edge detection and homography transformations.
- Implemented predictive models (EPV, xT) with XGBoost and Decision Trees for sports analytics.
- Leveraged YOLOv5, DeepSORT, Pandas, and NumPy for multi-object tracking, color clustering for team differentiation, and pitch mapping.
- Explored Large Language Models (LLMs) for advanced data interpretation and contextual analysis, enhancing tactical insights.

### Phantom Reacon, UAV Surveillance Drone (Still Working)

- Working on a UAV object tracking drone, for recognizing and tracking using GPS and a unique data transmitting system
- Will be implementing Facial recognition, GPS tracking, Thermal Imaging for precise human detection

### FIFA 20 Player Prediction System

- Analyzed player performance data (2015–2020) to build a budget-based recommendation system.
- Utilized Pandas, NumPy, and Plotly for data analysis and interactive visualizations