# Muhammad **Sarmad** Saleem

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## INTRODUCTION

I am a Computer Science student and an accomplished Machine & Deep Learning Engineer and Full Stack Developer. With a strong passion for problem-solving, I am  fully committed to creating seamless user experiences and driving innovation in the field of Machine Learning and development.

## SKILLS

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|---|---|---|
| Python,C,C++,Java | Hugging Face Transformers | ReactJS, NextJS |
| Numpy,Pandas | LangChain | TML,CSS & JavaScript |
| Tensorflow,Keras,PyTorch | Fast API, Flask | NODE JS,ExpressJS |
| Deep Learning Algorithms | Databases:MySQL,MongoDB | |

## PROFESSIONAL EXPERIENCE

**Search'O Pal & Simcoe IT(April 2024-Aug2024)**
**Web Devlopement Intern**

- Created dynamic assessment modules (MCQs, True/False, text-based).
- Automated PDF post-creation and social media posting.
- Create one-on-one video call using Web RTC for managing interviews for the product.

**CodSoft (Aug 2023-Sept 2023)**
**Machine Learning Intern**

- Designed and implemented predictive models for age and house price estimation using advanced machine learning algorithms.
- Developed the Age Predictor model, employing techniques such as regression analysis and feature engineering to accurately estimate age based on various inputs.

## EDUCATION

**The Educators Jinnah Campus(March 2008 - March 2020)**
**Matric (BISE Lahore)**

- Achieved exceptional results with 1081/1100 marks, ranking among the top 20 students in Lahore.
- Recognized as a school topper.
- Actively participated in various extra-curricular activities and debating competitions, demonstrating strong leadership and communication skills.

**Government College Lahore (GCU) (October 2020-July 2022)**
**FSc Pre Engineering(BISE Lahore)**

- Completed FSc at a prestigious institution, achieving 1061/1100 marks.
- Actively engaged in various extra-curricular activities and debating competitions, showcasing strong participation and leadership skills.

**National University of Sciences & Technology(NUST) Islamabad  (Sept 2022-June 2026)**
**BS CS (SEECS)**

- Pursuing a Bachelor's degree at Pakistan's top-ranked university.
- Current CGPA: 3.58/4.00
- Actively involved in various university societies, demonstrating leadership and engagement in campus activities.
- Currently in the 5th semester.

## PROJECTS

### NUST Info Chatbot
- Created a chatbot to assist outsiders and prospective students with information about NUST, including details on hostel facilities, building structures, fee structures, and campus locations.
- Designed and implemented the chatbot using BERT (Bidirectional Encoder Representations from Transformers), providing accurate and explanatory responses.
- Built a custom dataset by combining existing university and college data to train the model, ensuring comprehensive coverage of relevant information.
- Pioneered the initiative, as this was the first chatbot of its kind for NUST, enhancing accessibility and user experience for those unfamiliar with the university.
- Youtube Demo Link: https://youtu.be/Al2pqjjcllM?si=d3Vx1nY5L6GziVUs

### Fifa Players Detector
- Created a FIFA players detector by fine-tuning the YOLOv9 (You Only Look Once version 9) algorithm on a comprehensive football players dataset.
- Enhanced model accuracy through advanced fine-tuning techniques, resulting in exceptionally high detection performance.

### Age,Gender & Ethnicity Predcitor Using CNN
- Designed a custom CNN for accurate age, ethnicity, and gender prediction using shared convolutional layers and task-specific outputs.
- Works by giving image of person's face and it predicts all above cases.
- Achieved high prediction accuracy through optimized preprocessing and training on a large annotated dataset.

### Charity Website
- Developed a unique charity website as a database project, enabling local individuals to post needs, receive admin approval, and facilitate donations, enhancing community support.
- Utilized Node.js, Express, and MySQL for a robust backend system to manage user interactions, approvals, and donation processes.

### Logic Gates Simulator
- Developed a Java-based logic gate simulator enabling users to drag and connect gates (AND, OR, NOT, NAND, XOR) to build and test complex circuits.
- Included advanced components such as multiplexers, decoders, and encoders for enhanced circuit design capabilities.
- Provided real-time results and validation of circuit functionality to visualize correct outputs.

### Miscellaneous
- Simple Conversational ChatBot using Encoder Decoder Approach (LSTM)
- House price prediction,Customer Segmentation and Movie Recommendation System.
- E Commerce Website with user and vendor side using MERN
- Blogging Website using MERN.

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## CERTIFICATES:

- Machine Learning Specialisation by Deep Learning.AI
- Deep Learning Specialization by Deep Learning. AI

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## EXTRA-CURRICULAR ACTIVITIES

- Debating Society member at GCU Lahore
- Team Lead Marketing at ACM NUST Student Chapter
- Marketing Executive at Youth Entrepreneurial Society SEECS

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