

## **Muhammad Hasaan Nasir**

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## **WORK EXPERIENCE**

### **2023 - Today Machine Learning Engineer (Personal & Academic Projects)**

- Built predictive models, including linear regression, decision trees, and random forests, to solve business problems.
  - Designed and trained classification models for binary and multi-class problems using logistic regression, SVMs, and KNN.
  - Applied clustering techniques like K-means and hierarchical clustering for customer segmentation tasks.
  - Worked on dimensionality reduction methods such as PCA to improve model performance.
  - Developed and deployed advanced machine learning pipelines for tasks such as NLP, recommendation systems, and reinforcement learning scenarios.
  - Worked on model deployment using Tkinter for interactive applications.
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## **ACADEMIC BACKGROUND**

### **2021 – 2025 The Islamia University Bahawalpur - Bachelor's Degree in Computer Science**

## **LANGUAGES & COMPUTER SKILLS**

**LANGUAGES:** English(Fluent), Urdu(Native)

### **IT SKILLS:**

- Python (Expert)
  - Scikit-learn, XGBoost, TensorFlow, OpenCV, NumPy, Pandas, Matplotlib.
  - Model Deployment (Machine Learning, Tkinter).
  - Tools: VS Code, Google Colab, MS Word(Basic), Excel(Basic), PowerPoint(Basic).
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## **EXTRACURRICULAR ACTIVITIES**

### **PROJECTS:** - Student Face Recognition Attendance System

**Added Value:** Designed an efficient face recognition-based attendance system using OpenCV and deep learning techniques. Automated attendance records with high accuracy.

### **- Multiple Human Disease Prediction System**

**Added Value:** Integrated detection of seven diseases under one platform using deep learning and machine learning models. Built a Tkinter-based user-friendly interface for seamless interaction..

### **GENERAL SKILLS:**

- Strong analytical and problem-solving skills.
- Effective communication and team collaboration.
- Adaptive to new tools and technologies.

### **SPORTS:** Cricket , Football