

# YASIR QAYYUM

## Entry Level Data Scientist

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## SUMMARY

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Entry-level data scientist with 06-month of internship experience at Artificial Intelligence in Healthcare UET Peshawar (AIH), where I developed AI-driven solutions to improve healthcare outcomes. Recently graduated with a Computer Science degree from the University of Peshawar (CGPA 3.7). Proficient in Python and its frameworks, skilled in machine learning, statistics, and problem-solving. I am eager to apply my skills and creativity to uncover actionable insights and contribute to groundbreaking projects in data science and machine learning.

## PROJECTS

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### Predictive Diabetes Diagnosis:(Final Year Project)

- Developed a Flask app for **diabetes prediction** using a **Feed Forward Neural Network**.
- Enabled users to input 8 features for accurate diabetic/non-diabetic classification.
- Achieved **high prediction accuracy** through advanced deep-learning techniques.
- Implemented a user-friendly interface for seamless interaction and diagnosis.
- Contributed to proactive healthcare management through early disease detection

### ML Predictive Modeling for Property Valuation

- Enhanced model accuracy through extensive **feature engineering**.
- Improved predictions via meticulous model fine-tuning.
- Compared diverse **linear regression** models for optimal performance.
- Developed a user-friendly **Flask web app** for real-time predictions.
- Integrated precise input forms for tailored property predictions.

### Empowering Early Detection of Breast Cancer

- Achieved **97% accuracy** using **Logistic Regression** with hyperparameter tuning.
- Experimented with **Random Forest**, achieving **95% accuracy**, but found it less effective.
- Conducted data preprocessing and feature engineering on **569** observations.
- Implemented cross-validation and confusion matrix for model evaluation.
- Utilized **Python** and **Scikit-learn** for developing the model.

### Predicting Churn For Bank Customers

- Achieved **86% accuracy** using the XGBoost classifier through optimized model training.
- Explored **Logistic Regression** and **Random Forest**, which were less effective in this context.
- Implemented hyperparameter tuning using **Randomized Search CV** to enhance model performance.
- Conducted comprehensive data preprocessing and feature engineering to refine inputs.

## EXPERIENCE

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### National Center of Artificial Intelligence (NCAI), UET Peshawar

Nov-2023 – April-2024

#### Artificial Intelligence Intern

- Developed a lung sound classification model using 2D CNN, achieving high accuracy in classifying different types of lung sounds.
- Engineered a dynamic noise filter for a Tkinter application, enhancing user experience by reducing background noise and improving audio clarity.
- Contributed to ongoing research projects by collecting, preprocessing, and analyzing data to ensure high-quality and reliable research outcomes.

### Hyper Mall, Peshawar

Mar-2017 – sep-2017

#### IT Assistant

- Maintaining network connectivity.
- Checking operating systems and hardware maintenance.
- Ensuring point of sale is working properly.

## EDUCATION

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### BS (4 Years), University of Peshawar

2019 – 2023

#### Computer Science.

CGPA: 3.7

## SKILLS

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### Programming Languages

Python (Advance), R (Basic), SQL (Intermediate), Java (Intermediate), Javascript (Intermediate) C++ (Intermedia), MATLAB (Basic)

### Data Analysis Tools

Pandas (Intermediate), NumPy (Intermediate), SciPy (Basic), Matplotlib (Intermediate), Jupyter (Intermediate), Excel (Advanced)

### Machine Learning

scikit-learn (Intermediate), TensorFlow (Intermediate), Keras (Basic) Pytorch (Basic), NLTK (Basic)

### Data Visualization

Tableau (Basic), Power BI (Intermediate), Seaborn (advanced), Plotly (Basic)

### Web Frameworks

Flask (Intermediate) Django (Basics)

## CERTIFICATIONS

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- Certified by Digiskills: Data Analytics and Business Intelligence (2022).
- Certified by IBM: Excel Basics for Data Analysis.
- Certified by IBM: Introduction to Data Science (2021).
- Supervised Machine Learning: Regression and Classification
- Advanced Learning Algorithms

## Honors And Awards

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### ***DevFest 2022***

Google Developer Student Club (GDSC)

31 Dec 2022

### **Science and IT Exhibition City University Peshawar.**

Government College Peshawar

15 Jan 2021

### **Science and IT Exhibition Government College Peshawar**

Government College Peshawar

11 Nov 2018