

Hamza Irfan

Data Scientist & Analyst | ML+NLP Engineer

I am a Data Scientist with hands-on expertise in Machine & Deep Learning as well as Natural Language Processing. As a **plus point**, I have multi-domain knowledge specifically in the domains of **Cyber Security, Power Electronics, Artificial Intelligence**, & the **Internet of Things**. My prior working experience is around 1 year, comprises of as a Front End Developer using React JS, as well as a Freelance Data Scientist. Now, I am looking for a challenging environment where I could hone my skills and grow as a professional.

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EDUCATION

BS (Electrical Engineering)

FAST NUCES, Lahore.

08/2017 - 09/2021

Courses

- OOP , Data Structures & Algorithms
- Control Systems, Internet of things, Microprocessors interfacing
- Linear Algebra, Probability, Complex Variables

Career Advancement Track

AL NAFI

02/2022 - 01/2023

Courses

- Data Science with Python, Exploratory Data Analysis
- Machine & Deep Learning, NLP, Computer Vision
- CISSP preparation, ISO & NIST frameworks

PERSONAL PROJECTS

-> Anomaly Detection using LSTM Auto-encoder

- Using Tensorflow & Keras frameworks.

-> ChatGPT style Custom Knowledge Chatbot with LlamaIndex

- Using multiple Data loaders from LlamaHub

-> Multi-Class Image Classifier using Convolution Neural Network

- Accuracy improvement using Data Augmentation techniques.

-> Sentimental Analysis for Restaurant Reviews using Natural Language Processing.

-> Market Basket Optimizer using Apriori algorithm for a Super store.

-> Churn modeling of Bank Customers/Users using Artificial Neural Network.

-> Real Estate Price Prediction Model

- Python Flask Server for backend, html, css, js for UI.
- Multiple statistical ML models with Hyperparameter tuning.

SKILLS

Python

SQL

Exploratory Data Analysis

Machine Learning

NLP

Deep Learning

Neural Networks (ANN, CNN, RNN, LSTM, GRU)

Computer Vision

Time Series Forecasting

Predictive Analytics

Data Engineering

Object Oriented Programming

NoSQL

Linux RHEL 7,8

C++

R

Javascript

html5

css3

React js

NoSQL

Databases

WORK EXPERIENCE

Data Scientist (09/2022 - Present)

Working as a Freelance Data Scientist. Completed multiple projects in the domains of Machine Learning, Natural Language Processing, and Deep Learning.

Web Developer (01/2023 - 04/2023)

Worked with "Radibix" as a developer, mainly on ReactJS alongwith html5, css3, & javascript. Moreover, worked on Python API development using FastAPI.

TOOLS

Python

Scikit Learn

numpy

pandas

Tensorflow

Keras

NLTK

Spacy

Llama

FastAPI

Tableue

Seaborn

OpenCV

PostgreSQL

MySQL

Apache Cassandra

AWS

Git

Ubuntu

CentOS

Docker

Jupyter

Selenium

Xpath

VSCode

MS Excel

MATLAB