# USMAN MUHAMMAD
## DL / ML ENGINEER | DATA SCEINTIST

My passion is to understand and bring life to machines through data, with the help of deep learning and traditional learning.

## CONTACT

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**Address:** Islamabad, Pakistan

**Portfolio:** https://ozzmanmuhammad.github.io

## PROFESSIONAL SKILL

`Python` `SQL` `JS` `HTML5` `CSS`
`Tensorflow` `Keras.io` `PyTorch`
`Sklearn` `C++` `C#` `LINUX`

## TECHNICAL SKILL

**Exploratory Data Analysis:**
*Pandas-Profiling, Numpy, Matplotlib, & Seaborn*

**Deep Learning:**
*Model dev & eval, Transfer-learning, Fine-Tuning, Architectures: ANN, CNN, RNN, SNN, Transformers, & Custom models: Functional API & Subclass API.*

**Traditional Learning:**
*Linear, Polynomial, Ridge & Lasso Regresion, SVM, Decision tree, Randon-Forest, PCA, Clustering, & Gaussian Mixtures.*

**Problems type:**
*Computer Vision, NLP, Classification, Regression, Forecasting, & Predictive Analysis.*

**Web Development:**
*HTML5, CSS, JS, P5.JS, ML5, & Bootstrap.*

**Database Management Software:**
*SQL: PostgreSQL*

## PERSONAL SKILL

- SELF-MOTIVATED
- ORGANIZED
- TEAM WORK
- INNOVATE

## CERTIFICATES

**Data-Analysis with Python --IBM**

**Data-Visualization with Python --IBM**

**Machine Learning with Python --IBM**

**Tensorflow Developer -- Udemy**

## SOCIAL LINK

https://ozzmanmuhammad.github.io/

https://github.com/ozzmanmuhammad/

in/usman-muhammad-7888b0205/

## WORK EXPERIENCES

**GS TECHNOLOGIES (PVT) LTD** / Oct 2021- Dec 2021

INTERN IN ISLAMABAD Created an automated system for hiring data, their data management, and storage. Also did coordinated digital marketing with the team, designed and planned campaigns.

**DITS /** Sep 2021 - Sep 2021

WEB DEVELOPER INTERN ISLAMABAD: Worked on website for the school management system. Front-end was developed with Angular and Back-end was Asp.net core 5 entity framework and SQL.

**Research & Data Analysis /** Jun 2020- March 2021

COMSATS UNIVERSITY IN ISLAMABAD: Did research on the open modification search programs to identify unknown modifications in protein in MS/MS experiments, which involved protein data creation and manipulation. That gave me expert knowledge and increased my expertise in Python for data analysis and engineering.

## PERSONAL PROJECTS

To read more details, view code, and for more projects please visit my projects page: https://ozzmanmuhammad.github.io/project-list.html

**FOOD IMAGES CLASSIFIER** / CNN, EfficienetNetB0

Built a food classifier to identify food from 101 food classes images. I was able to get 70% accuracy with out fine-tuning and 80% with fine-tuned model.

**MEDICAL PAPER ABSTRACT TEXT CALSSIFICATION /** LSTM

Build a model that classify the abstract section of medical paper into 4 sections Background, Methods, Results, and Conclusion for easy reading of the section.

**BRAIN MRI SCAN CLASSIFIER-TUMOR OR NOT /** CNN

Build an binary image classifier to classify if an brain scan image contains tumor or not with out bounding box or segmentation of tumor part. Also used the same model for live prediction in browser using tensorflow JS and simple JS, available on my portfolio page.

**TWEETS SENTIMENTS ANALYSIS /** GRU, Bi-LSTM, USE, GPT-2

Build a classifier to classify tweets content into tweets about real disaster or not disaster. Also build an sentiments analysis using GPT-2 model (transfer learning) about reviews (resturents webscrapping) and tweets using hashtag.

**BITCOIN PRICE PREDICTION /** Bi-LSTM, CUSTOM MODEL

Build a predictive multivariate model for forecasting bitcoin rates.

**REAL-TIME OBJECT DETECTION /** CenterNet, COCO-SSD

Used transfer-learning to build a model for object detection using CenterNet for high accuracy detection and COCO-SSD model (less accurate but light) for real time object detection in browser, available on my portfolio page.

## EDUCATION

**BIOINFORMATICS BACHELORS DEGREE /** March 2021

COMSATS UNIVERSITY, ISLAMABAD: CGPA: 3.55