

Muhammad Waleed Butt

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Interests

My interests lie in the usage of language and CV models to remove the need of humans from the equation. I am interested in the effects of, varying hyperparameters and what the induction of variances in datasets, can have on different models.

Education

PUCIT - University of the Punjab Bachelor of Science - Computer Science <ul style="list-style-type: none">Expected graduation: July 2023GPA: 3.42/4.0	September, 2019 – Present Lahore, Punjab, Pakistan
Salamat International Campus for Advanced Studies (SICAS) A Level	2017 - 2019 Lahore, Punjab, Pakistan
Aitchison College O Level	2009 - 2017 Lahore, Punjab, Pakistan

Professional Experience

Teaching Assistant (Programming Fundamentals) PUCIT - University of the Punjab <ul style="list-style-type: none">Assisted students in the lab + other TA responsibilities	February, 2021 – October, 2022 Lahore, Punjab, Pakistan
Teaching Assistant (Object Oriented Programming) PUCIT - University of the Punjab <ul style="list-style-type: none">Designed material and coursework for the newly introduced lab component of the subjectAssisted students in the lab + other TA responsibilities	February, 2022 – June, 2021 Lahore, Punjab, Pakistan

Projects

Final year Project https://github.com/WaleedButt2/AI-Projects <ul style="list-style-type: none">The act of generating dialogues based upon stored history.Using Open-AI's GPT-3 models and we went on to develop a finetuned modelThe model's purpose is to create dialogues that are in line with the speaker's history and personality. The user can leave the option for generating dialogues to the model or he may input his own free speech dialogues into the game.If the choice is to let AI handle the creating of dialogues for you it will be dependant on you to choose the 'direction' you wish the dialogues to take be it positive, negative or neutral.The datasets for fine tuning were acquired from games that have good quality dialogues, and the ability to influence the direction of the conversation.	Chat-Gpt 3 Open AI, Python, Unity December, 2022 – Present
Web App www.plzcheaper.com <ul style="list-style-type: none">Made to test open AI base and fine tuning models	Django, Python, Google Cloud August, 2022 – September, 2022

- The app was made in Django and deployed using the gcloud app engine. The main purpose of the website was for learning necessary skills for the future, if a need arises to create and develop a web app to market products.

Skimlit

Tensorflow, Keras, Python

<https://github.com/WaleedButt2/Projects>

September, 2022 – October, 2022

- An NLP based dl model based on 2017 paper PubMed 200k RCT:200k RCT: a Dataset for Sequential Sentence Classification in Medical Abstracts.
- It uses the dataset called PubMed 200k RCT which consists of 200,000 labeled Randomized Controlled Trial (RCT) abstracts. This model is implemented in Keras and TensorFlow
- It classifies the text under different tags such as Objective, Results, and Methods.

Food Vision

Tensorflow, Keras, Python

<https://github.com/WaleedButt2/Projects>

August, 2022 – September, 2022

- Using the Food Vision 101 dataset to create a model that competes and beats the original paper's results with less amount of data.
- Using different types of models and techniques to arrive at the use of transfer learning with feature training for training a model that beats the original paper's accuracy.

Extracurriculars & Volunteering

Mentor and Helper

PUCIT - University of the Punjab

Helping Hands Society

2020 – Present

- Helped students with their coursework and assignments
- Mentored students in their projects
- Helped students with core concepts of their subjects

Awards & Honors

First Prize

2022

Bug Hunt - NaSCon FAST NUCES

Islamabad, Pakistan

- <https://pucit.edu.pk/achievements/>
- Awarded to the team with the most exploited and documented bugs in the competition

Participation Certificate

2021-2020

International Collegiate Programming Contest (ICPC) Regionals

Asia, Topi

Skills

Programming Languages: C, Python, Java, C#, x86-64 Assembly, LaTeX

Models: U-Net, LSTM, Mobile V-Net

Tools: TensorFlow, Keras

OS: Linux, Windows + WSL

Courses & MOOCs

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

Structuring Machine Learning Projects

Convolutional Neural Networks