



# Taqi Haider

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## EDUCATION

[ 12/2016 – 12/2020 ] **Bachelor of Electrical Engineering**

Quaid-e-Awam University of Engineering, Science, and Technology, Nawabshah, Islamic Republic of Pakistan.

**Thesis Title:** "A Comparative Study on PWM Techniques of an AC Voltage Controller in Terms of Harmonic Content"

CGPA: 3.65/4.0

## RESEARCH INTEREST

**Machine Learning , Transfer Learning**

**Natural Language Processing**(large language Models)

**Multilingual Question-Answering systems**

## PUBLICATION & RE- SEARCH PROJECTS

**Information retrieval**

[ 2023 ] **Computer-Vision based Deep Learning techniques for Plant Disease Detection- Review Paper**

under peer preview

[ 2023 ] **Machine Learning based Leukemia Cancer Prediction System using Protein Sequential Data**

under peer review

[ 2023 ] **Public Procurement Recommendation System for Italian Contracts**

under peer review

**A Comparative study on PWM techniques of AC Voltage Controller in terms of Harmonics Content.**

Modelled and designed the Ac voltage controller using MATLAB/Simulink Software and used different pulse width modulation (PWM) techniques to investigate the harmonic content and suggested the one with minimum harmonic content.

**Ventilation System Design of Rotary Machines.**

Worked on Designing of the Ventilation system of Rotary Machine i.e: Alternator and Induction motors. to lower the temperature rise and enhancing the performance.

**Design of RC, RL, and RLC Filters.**

In this Project worked on design and simulation of different filters using Electronic Work Bench Software, and learn how to configure them.

## WORK EXPERIENCE

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[ 01/10/2021 – Current ] **Data Science Instructor**

### *Skills Camp*

1. Creates content in the form of videos for the Skills Camp [Youtube](#) channel
2. Teaching students about web scraping, Machine Learning on the Online meeting platform.
3. Delivered lectures as a Keynote speaker at various workshops organized all over Pakistani universities.

[ 05/2019 – 06/2019 ] **Trainee Engineer**

### *Islamabad Electric Supply Company*

- Learned equipment operations by following the manufacturer's instructions and established procedures.
- Designed single line diagram of 132kV Rawal grid station and its implementation.
- Protection and maintenance of electrical equipment and transmission lines.
- Get familiar with protective relays (Circulating Current relay, overvoltage relay, etc.)

## PROJECTS

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### **Real-time Tweets Sentiment Analysis Web-application**

I developed a web application using Machine learning models for real-time time Twitter tweets sentiment Analysis and showed the positive, negative and neutral sentiment tweets on the web app.

Link: <https://taqihaidar-el-tweets-sentiment-analysis-main-pwjsef.streamlit.app/>

### **2022 Kaggle Machine Learning & Data Science Survey**

We tried to get insights from the survey data about gender equality in tech in the context of Sustainable Development Goal 5.

Link: <https://www.kaggle.com/code/taqihaidar17/un-goals-a-call-to-action>

### **Ask Quran: LLM based App for asking question in Quran**

We built the ChatGPT-like app based on Cohere's LLM and generated a response to queries using Openai's Text-Davinci Model with references within Quran,

Link: <https://askquranai.vercel.app/>

### **Chatty Panda: AI brand Intelligence Bot**

Chatty Panda assists with all business policy and document-related queries. We built the ChatGPT-like app based on OpenAI's LLM and generated responses to queries using OpenAI's GPT 3.5 Turbo Model.

Link: <https://chattypanda.streamlit.app/>

## PERSONAL SKILLS & AWARDS

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### **Skills**

1. Python
2. R
3. Machine Learning
4. Deep Learning
5. Cloud Computing (AWS, GCP, Azure)
6. Natural Language Processing
7. Computer Vision

## Academic and Volunteer Activities

1. Director Simulation Projects at **PLUGIN-Project Expo, QUEST Nawabshah**
2. Data Science for Agriculture Keynote Speaker at the **University of Agriculture Faisalabad**
3. Data Science content creator at **Codanics YouTube Channel**
4. AI, Data Science, and Machine learning Teacher, Content Creator at **Skills Camp Youtube Channel**

## Awards & Achievements

1. Won a Prize in Datademics-1 Datathon organized by Codanics
2. Got a Laptop under Prime Minister's Laptop Scheme
3. Participated in a Data Science competition organized by Kaggle
4. Participated in Smartathon organized by the Kingdom of Saudi Arabia
5. Participated and Submitted solutions in Openai Hackathon organized by lablab.ai
6. Participated and Got 1st position place in Cohere Hackathon organized by lablab.ai in which I built an [App](#) using LLMs to semantically search over the Quran

## COURSES & CERTIFICATIONS

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### 40 Days of Data Science with Python by Codanics

Link: <https://drive.google.com/file/d/1Pij-UPanQ3hIDquZCOQ4a5ILs-IBQF7I/view?usp=sharing>

### Data Analysis with Python by IBM

Link: <https://coursera.org/verify/R5TWWUNV7YJK>

### What is Data Science? by IBM

Link: <https://coursera.org/verify/6XECQK4QPWLQ>

## REFERENCES

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### Dr. Maryam Asim

Lecturer

Department of Statistics, Quaid-i-Azam University, Islamabad

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### Dr. Javed Ahmed Laghari

Associate Professor

Department of Electrical Engineering, QUEST Nawabshah, Sindh, Pakistan

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