



Taqi Haider

📍 Home : Islamabad, Pakistan

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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

WORK EXPERIENCE

[01/10/2022 – Current] **Data Science Instructor**

Skills Camp

- Creates content in the form of videos for the Skills Camp [YouTube](#) channel
- Teaching students about Web Scraping Machine Learning, and Generative AI on the Online meeting platform.
- Delivered lectures as a Keynote speaker at various workshops organized in 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.)

RESEARCH INTEREST

Machine Learning, Deep Learning

Natural Language Processing (Large language Models)

LLM Reasoning

AI for Healthcare

PUBLICATION & RESEARCH PROJECTS

[2023] **From Fields to Algorithms: A Comprehensive Review of AI and Deep Learning Techniques for Plant Disease Detection**

Submitted to **Computer Science Reviews**

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

under peer review

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

under writing process

[2023] **Rice Leaf Disease Detection using Vision Transformers**

under writing process

[2023] **Detecting False Data Injection Attacks on Smart Grids using Machine Learning**

Submitted to **IEEE Access**

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.

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.

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.

PROJECTS

Ask Quran: LLM based App for asking question in Quran

Developed a Multilingual [ChatGPT](#)-like Chatbot for Question Answering from the Holy Quran using Cohere's Multilingual Embedding LLM and OpenAI's Text-Davinci Model.

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

Chatty Panda: AI brand Intelligence Bot

Developed Chatty Panda Chabot to assist users with all business policies and customer service-related queries, with a frontend like ChatGPT using OpenAI's 3.5 Turbo LLM and Streamlit for deployment on the cloud.

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

Real-time Tweets Sentiment Analysis Web-application

Developed a web application using Machine Learning models for real-time tweet sentiment Analysis and provided insights into the tone of tweets (positive, negative, and neutral sentiment) on the web app.

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

2022 Kaggle Machine Learning & Data Science Survey

Analyzed the Kaggle Machine Learning & Data Science survey data about gender equality in tech in the context of Sustainable Development Goal 5 and got insights for policy formation.

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

PERSONAL SKILLS & AWARDS

Skills

1. Python
2. R
3. Data Analysis
4. Machine Learning, Deep Learning
5. Linux
6. Cloud Computing (AWS, GCP, Azure)

Academic & 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 Instructor, 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 the OpenAI Hackathon organized by lablab.ai
6. Participated and Got 1st position in Cohere Hackathon organized by lablab.ai in which I built an [App](#) using LLMs to semantically search over the Quran

COURSES & CERTIFICATIONS

Machine Learning Specialization by Stanford University, Deeplearnig.AI

Link: <https://www.coursera.org/account/accomplishments/verify/83XY7GQHN6YS>

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>

REFERENCES

Dr. Maryam Asim

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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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