

Tayyab Shafiq



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Location: Karachi, Pakistan

EDUCATION

- **DHA Suffa University** Karachi, Pakistan
Bachelor of Science - Computer Science Apr 2020 - Present
 - **Core::** Data Structures & Analysis Of Algorithms, Database Systems, Operating Systems, Compiler Construction
 - **Mathematics::** Multivariate Calculus, Linear Algebra, Probability & Statistics, Differential Equations, Numerical Computing

EXPERIENCE

- **Machine Learning Intern - iNeuron.AI** Remote
Engaged in a machine learning project within the healthcare domain. Jun 2023 - Present
- **Technical Content Writer (Data Science, Machine Learning/AI) - Medium** Remote
Published articles based on Data Science, Statistics, and Machine Learning. Dec 2022 - Present
 - **Role:** To convert information into knowledge, utilizing insights gained from machine learning and statistics courses, I write concise articles aimed at helping people understand complex concepts.
 - **Publications:**
 - "Achieving Security in Wireless Networks with WPA-3 and Machine Learning"
 - "Types of 'data' around us"
 - "From Numbers to Knowledge: Understanding the Essence of Statistics"

PROJECTS

- **Machine Learning Model for Thyroid Disease Detection in Patients using Neural Networks.:** This project involves 21 features and 3 classes: '1' for normal, '2' for hyperthyroidism, and '3' for hypothyroidism. It utilizes a neural network for multi-class classification and will be deployed on Azure. (In Progress)
- **Machine Learning Model to Predict Survival of Patients With Heart Failure:** The approach is to predict whether a patient will survive, considering the presence of multiple diseases that can lead to heart failure.
- **Neural Networks for Handwritten Digit Recognition:** This project is based on neural networks in which we have a dataset of 1000 training examples of 20x20 pixels each. The purpose of this project is to identify digits either 0 or 1.
- **Machine Learning Model To Predict Fuel Consumption (CO2) in Cars:** This project involves several features commonly found in cars. However, our specific focus is on engine size, using it to predict fuel consumption through linear regression.
- **Designed a Compiler For Data Analysis:** It is the project of Compiler Construction in which I made my own language called 'DAS'(Data analysis language) in this I designed language tokens and made 'Flex' to identify the language.
- **Developed a '4-bit Counter':** This Project is a 4-bit binary counter designed using 4 D - flip-flops. In this project, we use BCD to 7-segment Decoder (7448) that converts the output to decimal form and displays the output in a 7-segment display.
- **Developed a Learning Management System Web-based:** Created to make learning easy for students and eliminate management headaches. The Website is designed in HTML, CSS, and JavaScript

CERTIFICATIONS

- **Supervised Machine Learning: Regression and Classification** Coursera
First course of machine learning specialization by DeepLearning.AI June 2023
- **Linear Algebra for Machine Learning and Data Science by DeepLearning.AI** Coursera
Strong matrix understanding aids ML development. April 2023
- **SQL for Data Analysis with MySQL** DHA Suffa University
I learned this course to do data analysis tasks and manage database records. Jul 2022
- **Responsive Website Basics: Code with HTML, CSS, and JavaScript** Coursera
A Web development and designing course by the University of London. May 2021
- **Python for Data Science, AI & Development** IBM Skills Network
This was my first course in the journey of Data Science. Dec 2018

SKILLS

- Machine learning - Scikitlearn, Keras, Numpy
- Data Analysis - Power BI, Python
- Python, C, C++, C#
- Front-End Web & App Development - HTML, CSS, Javascript, Flutter
- Python, C, C++, C#
- Technical Content Writing

PERSONAL

"I'm currently in my third year of bachelor's degree coursework. I am committed to continual learning and problem-solving. I'm eager to investigate and accomplish projects and academic papers based on data science, data analysis, machine learning, and AI. I'm looking for an opportunity to use and grow my knowledge and talents here."