MUHAMMAD ALLAH RAKHA

AUTHOR
DATA SCIENTIST
SOFTWARE DEVELOPER
APPLICATION DEVELOPER
FULL STACK WEB DEVELOPER

"In which life the hard work are, also have changing in which life"

AUTHOR OF BOOKS

Book_1: Way To The Advanced Computer Data Science.
Book_2: Programming In 15 Language.
Book_3: Programming In Elixir Language.
Book_4: Programming In Fortran-90 Language.

Explanation

- The book_1 are cover about of the data science, artificial intelligence, machine learning, deep learning.
- The book_2 are cover about of the (C,C+,C#,Java,JavaScript,Python,Ruby,R,Rust,Go,Julia,Lua,Swift,PHP,Perl) languages.
- The book_3 are cover about of the elixir programming language.
- The book_3 are cover about of the fortran-90 programming language.
- In which have are provide the information about subject topic and programming codes. The all book are design with in Interactive Style.

EDUCATION BACKGROUND

FAST-NUCES UNIVERSITY PESHAWAR CAMPUS
Bachelor of Computer Science (BCS-4 year)
Year : 2019 - 2023

KIPS COLLEGE GARDEN TOWN LAHORE
Intermediate of Computer Science (ICS-2 year)
Year : 2017 - 2019

COUNTRY LANGUAGE

- Urdu
- Saraiki
- English UK
- German

CONTACT DETAILS

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Books: https://z-lib.org/
Search the Author name is Muhammad Allah Rakha

PERSONAL COMPUTER SCIENCE WORK EXPERIENCE

COMPUTER SCIENCE

- Data Science (Python,R)
- Artificial Intelligence (Python,R)
- Machine Learning (Python,R)
- Deep Learning (Python,R)
- Probability and Statistics (Python,R)

COMPUTER PRGRAMMING LANGUAGES

- Python
- R
- Julia
- JavaScript
- TypeScript
- Shell Scripthing
- PHP
- SQL
- Go
- Elixir
- Fortran-90
- Kotlin
- Rust
- Ruby
- C/C++/C#
- Perl
- Swift
- Java
- HTML
- CSS
- Node.js

COMPUTER ASSEMBLY LANGUAGES

- SISC (16-bits, 32-bits, 64-bits) Architecture
- RISC (RISC-V) Architecture

The use NASM (DOSBOX) and GNU Compiler for SISC. The use TinyEMU emulator and Ripes simulator for RISC

COMPUTER WEBSITE AND APPLICATION FRAMEWORKS

- Django
- Flask
- React JS
- React Native
- Angular
- Angular JS
- Flutter
- Bootstrap
- Tailwind CSS
- JQuery

COMPUTER PYTHON AND R LANGUAGE LIBRARIES

- TensorFlow
- Scikit Learn
- Scikit Image
- Open CV
- Theano
- Plotly
- Apache Spark
- Selenium
- Keras
- Web2py
- Pandas
- Ggraph
- PyTorch
- Numpy
- Ggplot2
- SciPy
- ScraPy
- Matplotlib
- Seaborn

COMPUTER PROFESSIONAL SKILLS

OPERATING SYSTEM

- Microsoft Window 10
- Ubuntu Linux
- Kali Linux
- Window 95,2000,XP,7,Vista,8
- Unix
- Linux
- DOS

INTEGRATED DEVELOPMENT ENVIRONMENT (IDE)

- Visual Studio
- Visual Studio Code
- PyCharm
- IntelliJ IDEA
- WebStorm
- RubyMine
- GDB Debugger

SYSTEM AND WEB-BROWSER SOFTWARE

- VMWare Workstation Pro15
- Git and Github
- Canva
- Adobe InDesign
- WordPress
- HeroKu
- Microsoft Word/PowerPoint/Excel/Database/Publisher
- Carrd
- Netlify

PERSONAL COMPUTER WORK PROJECTS

MACHINE LEARNING (PYTHON) **MAR,2,2021**

Detecting Parkinson's Disease:

- Parkinson's disease is a progressive disorder of the central nervous system affecting movement and inducing tremors and stiffness. It is a neurodegenerative disorder affecting dopamine-producing neurons in the brain.

Python Libraries and Dataset:

- Scikit-learn, Numpy, Pandas, and XGBoost

GitHub Link: https://github.com/aaaastark/Detecting_Parkinson-s_Disease_Python_Project.git

MACHINE LEARNING (PYTHON) **MAR,10,2021**

Detecting Fake News:

- A type of yellow journalism, fake news encapsulates pieces of news that may be hoaxes and is generally spread through social media and other online media. This is often done to further or impose certain ideas and is often achieved with political agendas. Such news items may contain false and/or exaggerated claims, and may end up being viralized by algorithms, and users may end up in a filter bubble.

Python Libraries and Dataset:

- TfidfVectorizer: TF (Term Frequency) and IDF (Inverse Document Frequency)

GitHub Link: https://github.com/aaaastark/Detecting_Fake_News_Python_Project.git

DEEP LEARNING (PYTHON) **MAR,18,2021**

Image Classification:

- The classification problem is to categorize all the pixels of a digital image into one of the defined classes.
- Image classification is the most critical use case in digital image analysis.
- Image classification is an application of both supervised classification and unsupervised classification.

Python Libraries and Dataset:

- Keras, TensorFlow, Matplotlib, Numpy. CIFAR-10 (dataset)

GitHub Link: https://github.com/aaaastark/Image_Classification_and_Convolution_Neural_Network.git

DEEP LEARNING (PYTHON) **MAR,19,2021**

Convolutional Neural Networks:

- Convolutional Neural Networks, like neural networks, are made up of neurons with learnable weights and biases. Each neuron receives several inputs, takes a weighted sum over them, pass it through an activation function and responds with an output.
- The whole network has a loss function and all the tips and tricks that we developed for neural networks still apply on Convolutional Neural Networks.

Python Libraries and Dataset:

- Keras, TensorFlow, Matplotlib, Numpy. CIFAR-10 (dataset)

GitHub Link: https://github.com/aaaastark/Image_Classification_and_Convolution_Neural_Network.git

MACHINE LEARNING (R) **APR,1,2021**

Customer Segmentation:

- Customer Segmentation is the process of division of customer base into several groups of individuals that share a similarity in different ways that are relevant to marketing such as gender, age, interests, and miscellaneous spending habits.
- Companies that deploy customer segmentation are under the notion that every customer has different requirements and require a specific marketing effort to address them appropriately.

Python Libraries and Dataset:

- K-Mean Clustring

GitHub Link: https://github.com/aaaastark/Customer_Segmentation_R_Project.git

PERSONAL COMPUTER WORK PROJECTS

SECURITY SYSTEM (C++) **DEC,25,2020**

Top Password Security System:

- The project base in three different Algorithm base. 1: Cryptography 2: Caesar Cipher 3: Vigenere Cipher. The OOP(C++) language use in this project building.
- When user enter a password in the type of character. Then these algorithm are process of Ciphertext into Plaintext or Plaintext into Ciphertext

C++ Libraries and Algorithm:

- Iostream, Fstream, Cstream, String, Cstring, Cmath, Stdlib.h, Conio.h
- Caesar Cipher, Cryptography, Vigenère cipher

Explanation Link: https://mega.nz/file/wZIXyapZ#lZ_8g-f6oWgFYoPum1A5eye02rjb2bfxVaec7Bdiun4

GitHub Link: https://github.com/aaaastark/Top-Password-Secruity-System.git

WEB DEVELOPMENT (PYTHON_DJANGO) **MAR,2,2021**

aaaa-stark-todo-website:

- The todo website is developed by using the Django Python Framework. In which enter your todo plains and remove your plains at any time you want to. Backed we use the database of Django SQLite Python.

Python Libraries and Web Deployment:

- asgiref==3.3.4
- Django==3.2
- django-crispy-forms==1.11.2
- gunicorn==20.1.0
- pytz==2021.1
- sqlparse==0.4.1
- whitenoise==5.2.0
- For Deployment (Heroku, Heroku CLI, GitHub)

Website Link: https://aaaastarktodolist.herokuapp.com/

GitHub Link: https://github.com/aaaastark/aaaa-stark-todo-website.git