

MUHAMMAD ALLAH RAKHA

AUTHOR
DATA SCIENTIST
SYSTEM SOFTWARE DEVELOPER
DESKTOP APPLICATION DEVELOPER
MOBILE APPLICATION DEVELOPER
FULL STACK WEB DEVELOPER



AUTHOR (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: (Data science, Artificial Intelligence, Machine Learning, Deep Learning) all topics and with in Python Codes.
- The book_2: (C,C++,C#,Java,JavaScript,Python,Ruby,R,Rust,Go,Julia,Lua,Swift,PHP,Perl) language .
- The book_3: Elixir Programming Language (All basics and Programming Codes) .
- The book_3: Fortran-90 Programming Language (All basics and Programming Codes).
- In which have are provide the information about subject topic and programming codes. All books are designed 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 WORK EXPERIENCE

COMPUTER SCIENCE

- Data Science (Python,R)
- Artificial Intelligence (Python,R)
- Desktop Application Developer (C#, Java, Electron JS, React JS, Flutter, Ionic, Meteor JS, HTML, JavaScript, CSS, Node JS)
- Mobile Application Developer (React Native, Flutter, Ionic, Meteor JS, Cordova, HTML, JavaScript, CSS, Node JS)
- Full Stack Web Developer (React JS, Angular JS, Express JS, Flutter, Ionic, Meteor JS, HTML, JavaScript, CSS, Node JS)
- Machine Learning (Python,R)
- Deep Learning (Python,R)
- Probability and Statistics (Python,R)
- Data Structure (C++)



PROGRAMMING/SCRIPTING/MARKUP LANGUAGES

- Python
- JavaScript
- PHP
- Elixir
- Rust
- Perl
- HTML
- C++
- Vanilla JavaScript
- R
- TypeScript
- SQL
- Fortran-90
- Ruby
- Swift
- CSS
- C#
- Julia
- Shell Script
- Go
- Kotlin
- Dart
- Java
- Node JS
- C



DATABASE LANGUAGES

- MongoDB
- MySQL
- SQL
- SQL Alchemy
- SQLITE
- SQLITE



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



WEBSITE/MOBILE/DESKTOP APPLICATION FRAMEWORK

- Django
- Flask
- React JS
- React Native
- Angular
- Angular JS
- Ionic and Capacitor
- Bootstrap
- Tailwind CSS
- JQuery
- Meteor JS
- Flutter
- Electron JS
- Cordova



PYTHON AND R LANGUAGE LIBRARIES

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



COMPUTER SCIENCE 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/APP

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



PROJECTS (PERSONAL WORK)

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 Clustering

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



PROJECTS (PERSONAL WORK)

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-f6oWgFYpUm1A5eye02rjb2bfXVaec7Bdiun4

GitHub Link:

<https://github.com/aaaastark/Top-Password-Security-System.git>

WEB DEVELOPMENT (PYTHON_DJANGO)

JUNE,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>

WEB DEVELOPMENT (PYTHON_DJANGO AND REACTJS)

JUNE,4,2021

Personal Portfolio Website of AAAASTARK & MUHAMMAD ALLAH RAKHA:

- Personal Website of AAAASTARK & MUHAMMAD ALLAH RAKHA. The Personal Portfolio website is developed by using the ReactJS and with Django Python Framework. This website is made for Resume, Books, Services, Project, and information about AAAASTARK.
- 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
- django-heroku==0.3.1
- gunicorn==20.1.0
- psycopg2==2.8.6
- pytz==2021.1
- sqlparse==0.4.1
- whitenoise==5.2.0
- For Deployment (Heroku, Heroku CLI, GitHub)

Website Link:

<https://aaaastark.herokuapp.com/>

GitHub Link:

https://github.com/aaaastark/AAAASTARK_Website_Personal.git



PROJECTS (PERSONAL WORK)

DESKTOP APPLICATION (ELECTRON & JAVASCRIPT & HTML & CSS & NODEJS)

JULY,26,2021

SOLAR SYSTEM 3D:

- 3D Solar System is make, the based of 3D Module Blue Visualization. We use the Programming Language and Programming Framework for this project development.
- Language: HTML & CSS & JAVASCRIPT & NODEJS
- Framework: ELECTRON JS

ELECTRON LIBRARIES AND NODEJS LIBRARIES:

- Electron
- Electron-Builder
- Electron-Forge Package
- Electron-Forge Make
- Electron-Forge Publish
- Electron-Squirrel-Startup
- Electron-Squirrel-Startup
- Electron-Forge/Cli
- Electron-Forge/Maker-Deb
- Electron-Forge/Maker-Rpm
- Electron-Forge/Maker-Squirrel
- Electron-Forge/Maker-Zip

GitHub Link:

<https://github.com/aaaastark/3D-SOLAR-SYSTEM.git>

DESKTOP APPLICATION (ELECTRON & JAVASCRIPT & HTML & CSS & NODEJS & MYSQL DATABASE)

JULY,30,2021

AAAA STARK DESKTOP APPLICATION:

- AAAA STARK desktop application is make, the based of AAAA STARK website of module visualization. The database is online. We use the Programming Language and Programming Framework for this project development.
- Language: HTML & CSS & JAVASCRIPT & NODEJS & MYSQL DATABASE
- Framework: ELECTRON JS

ELECTRON LIBRARIES AND NODEJS LIBRARIES:

- Electron
- MySQL Database
- Sequelize
- Electron-Forge Package
- Electron-Forge Make
- Electron-Forge Publish
- Electron-Squirrel-Startup
- Electron-Squirrel-Startup
- Electron-Forge/Cli
- Electron-Forge/Maker-Deb
- Electron-Forge/Maker-Rpm
- Electron-Forge/Maker-Squirrel
- Electron-Forge/Maker-Zip
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GitHub Link:

<https://github.com/aaaastark/AAAASTARK-DESKTOP-APPLICATION.git>