

# MUHAMMAD ALLAH RAKHA

## DATA SCIENTIST | DATA ENGINEER

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### AUTHOR (BOOKS)

Book\_1: Programming In 15 Language.  
Book\_2: Programming In Elixir Language.  
Book\_3: Programming In Fortran-90 Language.



### PERSONAL EXPERIENCE (COMPUTER SCIENCE)

Artificial Intelligence, Machine, and Deep Learning  
Natural Language Processing and Computer Vision  
Probability, Statistics, and DataStructure (Algorithms)  
DataBase, Operating System, and Computer Networking



### PROGRAMMING AND DATABASE LANGUAGES AND SOFTWARE

• Python • PHP • C++ • MySQL • Erlang/Elixir • AWS  
• R • Java • C • MongoDB • Fortran-90 • Azure  
• Julia • Ruby • SQL • MariaDB • JavaScript • GitHub  
• SAS • Rust • Go • SQL • Flask/Django • Docker



### BIG DATA FRAMEWORKS

• Hadoop • Map Reduce • Hive • Sqoop  
• Spark • Tableau • Pig • HBase  
• HDFS • PowerBI • Flume • YARN  
• Mahout • Zookeeper • Avro • Storm



### PYTHON AND R LIBRARIES/API

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



### PROJECTS (PERSONAL WORK)

MACHINE LEARNING (PYTHON, R) • TWITTER SENTIMENT ANALYSIS • CUSTOMER SEGMENTATION  
• LIFE EXPECTANCY PREDICTION • DETECTING PARKINSON'S DISEASE  
• BREAST CANCER ANALYSIS • DETECTING FAKE NEWS

#### DEEP LEARNING (PYTHON, PYTORCH)

• IMAGE CLASSIFICATION • CONVOLUTIONAL NEURAL NETWORKS • CNN AND LSTM HYBRID MODEL  
• DATA AUGMENTATION NOISE MNIST IMAGES • ADVERSARIAL NETWORK ATTACK MNIST IMAGES

#### DATA ANALYSIS (PYTHON)

• WORLD HAPPINESS REPORT  
• FRAMINGHAM HEART STUDY-COHORT (FHS-COHORT)

#### WEB SCRAPING (PYTHON)

• WEB SCRAPING SITE (HTTPS://WWW.THESTAR.COM.MY) • ZILLOW REAL ESTATE WEBSITE

#### ARTIFICIAL NEURAL NETWORK (PYTHON): PERCEPTRON NEURAL NETWORK

#### NATURAL LANGUAGE PROCESSING (PYTHON): TEXT CLASSIFICATION NLP

#### NATURAL LANGUAGE PROCESSING (PYTHON): WORD ASSOCIATION AND MUTUAL INFORMATION NLP

#### BIG DATA (HADOOP): HADOOP & HADOOP ECOSYSTEM (LINUX)

#### PARALLEL AND DISTRIBUTED COMPUTING: MPI AND OPENMP (LINUX)

#### NVIDIA CUDA GPU: NVIDIA CUDA GOOGLE COLAB



### 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 LANGUAGES

Saraki (Native or Bilingual Proficiency)  
Urdu (Full Professional Proficiency)  
English (Limited Working Proficiency)  
Deutschland (Limited Working Proficiency)



### INTERESTS AND SKILLS

Reading  
Sports  
Traveling  
Programming/Coding  
Artificial Intelligence  
Communication Skills  
Data Analysis  
Attention To Detail  
Creativity/Management  
Development/Deployment