Muhammad Allah Rakha

Research Data Scientist & AI-ML Engineer

Hi! Let me introduce myself, my name is Muhammad Allah Rakha. I'm looking for a Data Scientist job that is related to the Research field in the case of (Machine or Deep) learning sectors. I have professional (planned/organized form) research field-relevant experiences, so my interest is in research and development.

Work Experience

Fiverr

Research Data Scientist | AI-ML Engineer
February 2020 to December 2022
(2 years, 11 months)

- Make the critical projects of client's requirements. E.g. Research, Thesis, FYP, and Company (Corporative/Business) Projects. By using different kinds of Programming Languages, Frameworks, APIs, etc.
- Maintenance of the organization's client's projects and solving unexpected bugs/errors in real-world problems.
- Providing and teaching correct way solutions to problems in user working projects.
- Distributed real-world knowledge/experiences with each other, and groom their own mind-thinking expertise.

Professional Field Experience

- Artificial Intelligence and Machine, Deep Learning.
- Natural Language Processing and Computer Vision.
- Probability, Statistics, and Data Structure.
- Database, Operating System, and Computer Networking.
- Hyperspectral Images (Research).
- Research Papers, Thesis, and FYP.

Education History

Bachelor of Computer Science
Institution: FAST-NUCES University
Year of Graduation: 2019-2023

Intermediate of Computer Science
Institution: KIPS College Lahore
Year of Graduation: 2017-2019

Interests & Skills

- Reading & Writing
- Sports & Traveling
- Attention To Detail
- Programming & Coding
- Artificial Intelligence
- Creativity & Management
- Development & Deployment
- Programming & Coding
- Machine, Deep Learning
- Data Scientist & Big Data

Research Field

Research: Hyperspectral Image
University in Chongqing, China

- Hyperspectral Image Denoising using Hybrid Spectral Central Difference Convolutional Network.
- Hyperspectral Image Classification using Hybrid Multi-Head Attention Mechanism with Central Difference Convolutional Network.

Author Books

- Programming In 15 Language.
- Programming In Elixir Language.
- Programming In Fortran-90 Language.

Volunteer $ Workshop

Speech AI (NVIDIA)
In automatic speech recognition (ASR) and text-to-speech (TTS) technologies.

Training & Tuning Text-to-Speech with NVIDIA (NeMo) and W&B WeightesBiases (Wandb)
The techniques of (NeMo) and (Wandb) in Automatic Speech Recognition (ASR) and Text-to-Speech (TTS) technologies.

Contact Info

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Relevant Skills

- Python
- R/Julia
- Java
- Rust
- C/C++

- Java Script
- Shell Script
- Bash Script
- MySQL
- MongoDB

- Flask/Django
- Elm/Eel
- HTML, CSS
- Node, React JS
- Electron, Next JS

- Amazon AWS
- Microsoft Azure
- Git/GitHub
- Docker
- Kubernetes

- Hadoop
- Spark
- Kafka
- Tableau
- PowerBI

Projects Details

Thesis Project: Attack Detection, Parameter Optimization, and Performance Analysis in Enterprise Networks (ML Networks) for Intrusion Detection System IDS.
Associated: Fiveer & More Details: https://github.com/aaaastark/

Thesis Project: The proposed Artificial Neural Network (ANN) Intrusion Detection System for MQTT Enabled IoT.
Associated: Fiveer & More Details: https://github.com/aaaastark/

Time Series Analysis: Accelerometer Sensors of Object Inclination and Vibration.
Associated: Fiveer & More Details: https://github.com/aaaastark/

False Data Injection Attack (FDIA) with Long Sort Term Memory (LSTM) Model.
Associated: Fiveer & More Details: https://github.com/aaaastark/

Graph Convolution Network GCN with Dimensional Redaction and Differential Algorithms.
Associated: Fiveer & More Details: https://github.com/aaaastark/

Adversarial Network Attacks (PGD, pixel, FGSM) Noise on MNIST Images Dataset.
Associated: Fiveer & More Details: https://github.com/aaaastark/

Data Analysis and Visualization (Apriori and Arules): Market Basket.
Associated: Fiveer & More Details: https://github.com/aaaastark/

Web Scraping: LinkedIn | Zillow Real Estate Marketplace Company | .
Associated: Fiveer & More Details: https://github.com/aaaastark/

Hybrid Model Classification with CNN and LSTM for Video and Music Data (VMD) Dataset.
Associated: Fiveer & More Details: https://github.com/aaaastark/

Netflix Data Analysis and Visualization | Fake News Detection.
Associated: FAST-NUCES & More Details: https://github.com/aaaastark/

Detecting Parkinson's Disease Analysis | World Happiness Report Classification.
Associated: FAST-NUCES & More Details: https://github.com/aaaastark/

Data Analysis: Framingham Heart Study (FHS) to Seminal Research defining Cardiovascular Disease (CVD) Risk.
Associated: FAST-NUCES & More Details: https://github.com/aaaastark/

NVIDIA CUDA GPU: NVIDIA CUDA Google CoLab.
Associated: FAST-NUCES & More Details: https://github.com/aaaastark/

Twitter Sentiment Analysis and Classification using State-of-Art ML Models.
Associated: FAST-NUCES & More Details: https://github.com/aaaastark/

Parallel and Distributed Computing: MPI AND OPENMP (LINUX).
Associated: FAST-NUCES & More Details: https://github.com/aaaastark/

Artificial Natural Network Perceptron (Forward Pass and Back Propagation).
Associated: FAST-NUCES & More Details: https://github.com/aaaastark/

Word Association and Mutual Information using Natural Language Processing.
Associated: FAST-NUCES & More Details: https://github.com/aaaastark/

Text Classification using Natural Language Processing.
Associated: FAST-NUCES & More Details: https://github.com/aaaastark/

Website Application: Human Resources Management System Dashboard.
Associated: FAST-NUCES & More Details: https://github.com/aaaastark/