Shahzaib Ali

Data Scientist(back-end, NLP, Machine & Deep Learning Engineer | Django | Flask | Golang | Dockers Container, AWS & kubernetes | Kong | Spark) at Nextbridge (Pvt) Ltd

Professional based Summary:

Business-minded enterpreneur Data Scientist with a demonstrated ability to deliver valuable insights via data analytics, Machine Learning, Deep Learning and advanced data-driven methods. Skilled in developing business plans with Artificial Intelligence to come up with something interested. Always ready to map Artificial Intelligence on challenging business problems to provide automated solutions. Interested in to develop full-stack AI application and try to use advance technologies like **Docker, Neo4j, cassandra, MongoDB, HB, Spark, kafka Django/Flask** etc. to provide flexible, reliable and smart solutions.

Area of Interest:

- Machine Learning
- AI
- Deep Learning
- NLP
- Social media Sentiment Analysis
- Hybrid Recommendation Systems
- 3rd generation of neural networks SNN
- Optimization Technique
- BlockChain

📊 Strengths & Skills

- ✔ Analyze Data
- ✔ Assembly language
- ✔ CSS3
- ✔ Data Visualization
- ✔ Descriptive Analysis
- ✔ Docker Container
- ✔ Graph Database
- ✔ Kafka
- ✔ Kubbernetes
- ✔ Mysql
- ✔ NOSQL
- ✔ Problem Solving
- ✔ python Flask
- ✔ Rest API
- ✔ TypeScript
- ✔ AngularJs
- ✔ Bootstrap
- ✔ Data Analyst
- ✔ Database Design
- ✔ Django
- ✔ Flask
- ✔ HTML 5
- ✔ Keras tensorflow
- ✔ Machine Learning
- ✔ Neo4j
- ✔ Predictive Analysis
- ✔ Python
- ✔ Rabbitmq
- ✔ SPARK
- ✔ Visual C++ (Microsoft)
- ✔ Artificial Intelligence
- ✔ Celery
- ✔ Data Scientist
- ✔ Deep Learning
- ✔ Docker
- ✔ Golang
- ✔ JavaScript
- ✔ Kong
- ✔ Mongo DB
- ✔ NLTK
- ✔ prescriptive Analysis
- ✔ Python Django
- ✔ Redis
- ✔ SQL
- ✔ Web Developer

✳ Certifications

IEEE LUMS Datascience
IEEE
Starting Apr 2018

Overcome the Impact of English via technology
UMT
Starting Apr 2018

National Big Data and Technologies
IEEE LUMS
Starting Mar 2018

Hackathon
IBM, VentureDive,PITB, TechubConnect
Starting Dec 2017

AWS INNOVATE CONFERENCE
Amazon

Contact Info

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- 🏠 Pak Arab Housing Society CC-88 Lahore, Pakistan

🎓 Academics

BSSE | 2018 | 3.5 CGPA
University of Management and Technology, Lahore

FSC | 2013
Punjab College, Burewala

Matric | 2010
The Educators for Boys, Burewala

🏆 Awards

- Top 25 in Amazon Innovation quiz | 2019
- Google Foo Bar Challenge | 2019
- Dean Merit Award for highest GPA 3.92/4 .00 | 2018
- Deep Learning Hackathon | 2017
- Machine Learning Competition | 2017

⚙ Industries

- Education/Training
- Gems & Jewelery
- Health & Fitness
- Information Technology
- Media/Communications

✳ Functional Areas

- Accounts, Finance & Financial Services

🔊 Languages

- English - Native
- Punjabi - Native
- Urdu - Native
- Gan Chinese - Beginner

☆ Hobbies

Programming	Chess
Drawing	Hiking
Reading	Jogging
table tennis	Badminton
Swimming	

☑ Experience **2** years

NewsBot.ai	1 month	**Aug 2019 - Present**
CEO / Chief Executive Officer / Executive Director		
Omdena	1 month	**May 2019 - Jun 2019**
Data Wrangler/ML Engineer		
Nextbridge (Pvt) Ltd	1 year	**Sep 2018 - Present**
Artificial Intelligence Instructor		
Nextbridge (Pvt) Ltd	1.2 years	**Jul 2018 - Present**
Data Scientist(NLP, Machine & Deep learning| Django/Flask | Golang | Mean Stack)		
NexusBerry Academy	1 month	**Jul 2018 - Aug 2018**
Teacher / Trainer		
UMT	6 months	**Jun 2017 - Dec 2017**
Teacher Assistant(Data Mining)		
UMT Lab	1.2 years	**Jun 2017 - Aug 2018**
Research Scientist		

☰ Projects

Trivago-Personalized_Recommendation_System (Trivago)
Pychram, Postman, jupyter, Pandas, Numpy, sklearn

Deep Dream NXB (Nextbridge (Pvt) Ltd)
AWS, Pycharm, Google Colab, Jupyter Notebook, tensorflow, Keras, python3, Sklearn

Ground School of AI(Artificial Intelligence) (Nextbridge (Pvt) Ltd)
Spark, Kong, Docker containers, Kafka, Flask framework, neo4j, MongoDB, Cassandra, tensorflow, pytourch, Scratch Algos

Find direct and indirect relationship of Pakistan and Israel (.)
Neo4j, GraphDB, Anaconda, Python, Beautiful-soup(BS4), Selenium Automation, Request Scrapy

Gsmarena Mobiles Reviews Analysis (Nextbridge (Pvt) Ltd)
https://www.gsmarena.com
Python, NLTK, Spyder, Orange3

IMAP Email Analyzer Tool (Nextbridge (Pvt) Ltd)
Spyder, Thunderbird

Save our Native language using Deep text (Institute of Art and Culture)
Keras Deep learning with back-end tensorflow

Social Media Top Trends using Spark (Project Big Data)
Spark, Data-bricks, MLIB Spark, tweepy, Python anaconda

Sales forecasting (Research Project)
Keras Deep learning with Back-end tensor-flow, Python Anaconda

Text Sumerization (NLP Project)
NLTK, Anaconda cloud

Bank Fraud Detection (ML project)
Keras deep learning with back-end tensorflow, Anaconda python

Churn prediction using ANN (ML project)
Keras using back-end tensor-flow, python Spyder

IBM ChatBot (IBM)
IBM API

Explicit Video Predictor (Hackathon with collaboration of IBM,Venture-dive,PITB,Techub Connect's)
Keras with backend Tensorflow, Anaconda Cloud

Social Media Brand Analysis (Deep Solution)
Anaconda(Spyder,Jupiter Notebook), Orange3

Political Sentiment Analyzer (FYP)
Twitter Cloud API, Spark API for BigData, Anaconda Cloud, scikit-learn

Lahore Airline (Project)
Xampp,Sublime Editor,Photoshop.

TouchBall (project)
Unity 3D , Blender

AirBalloon (Project)
Unity 3D

House Rate Predictor (Kaggle)
scikit-learn, Anaconda Cloud, Keras deep learning package with Tensorflow backend.

ONE LOOK (Search Engine using Java) (Research Based Project)
NetBeans, Photoshop

📋 Work History

NewsBot.ai	Aug 2019 - Present (1 month)

CEO / Chief Executive Officer / Executive Director
Lahore, Pakistan

NewsBot.ai is a news channel based on artificial intelligence. The aim of this startup is to provide world class information(Correctness, Clarity, Conciseness) to world in an automated way. This information is totally generated through **Artificial Intelligence**. And I am looking to take it to another level. This startup is at early stage, So invite everyone who want to collaborate with me to achieve the goal. and make the data-lit. let's grow together.

Kindly check out my video link mentioned below and add your valuable feedback.

Video Link: https://www.youtube.com/watch?v=n5XDXubqt94

LINKED-IN: https://www.linkedin.com/in/shahzaib-ali-899846a6/
Feedback@ https://forms.gle/o2uPSNJGpDsvJuvQ8

Omdena	May 2019 - Jun 2019 (1 month)

Data Wrangler/ML Engineer
Lahore, Pakistan

Omdena is a global platform for Collaborative AI Education. We bring together organizations, experts, and enthusiasts to learn in a streamlined collaborative environment how to build trusted and high-impact AI solutions. Our motto is, learning AI by doing AI. Organizations present their problem, we design a Collaborative Challenge and build the best-fit project community to learn together, solve the problem, and deliver the solution. We are a value-driven community and all our initiatives are based on diversity, inclusion, and trust.

Nextbridge (Pvt) Ltd	Sep 2018 - Present (1 year)

Artificial Intelligence Instructor
Lahore, Pakistan

- Training Department on advance cutting-edege technology.
- Train Summer interns on Machine Learning.
- Train University students and help them in choosing the field according to Final Year project.

Link: https://nextbridgeinstitute.com/

Nextbridge (Pvt) Ltd	Jul 2018 - Present (1.2 years)

Data Scientist(NLP, Machine & Deep learning| Django/Flask | Golang | Mean Stack)
Lahore, Pakistan

The work includes the whole spectrum of Data Science/MachineLearning/DeepLearning/Big Data and software development tasks, such as writing web apps (both front-end and back-end work), web service/APIs, unit testing and beyond.

Responsibilities:
Duties include but not limited to the following:

- Advanced Training in a relevant technology stack.
- Development of enterprise applications.
- Maintenance and upgrades (new features, refactoring, bug fixing) of existing programs
- Additional duties as assigned.

Link: http://www.nextbridge.pk/

NexusBerry Academy	Jul 2018 - Aug 2018 (1 month)

Teacher / Trainer

Lahore, Pakistan

UMT	Jun 2017 - Dec 2017 (6 months)

Teacher Assistant(Data Mining)

Lahore, Pakistan

- Assist in developing lesson plans based on state requirements and the specific needs of each student
- Collaborate with teachers to monitor the development of each student
- Understand the teacher's routine when it comes to delivering a lesson plan and running the class in the event that the teacher is absent on a particular day
- Work with student in the classroom to promote their learning and development
- Take Viva of each assignment and quizz
- Help teachers with recordkeeping, such as tracking attendance and calculating grades
- Help teachers prepare for lessons by getting materials ready or setting up equipment, such as computers

UMT Lab	Jun 2017 - Aug 2018 (1.2 years)

Research Scientist

Lahore, Pakistan

Research Area
- AI(Artificial Intelligence)
- Block Chain

Projects

Trivago-Personalized_Recommendation_System	Jun 2019 - Jul 2019 (1 month)

Company: Trivago

Tools: Pychram, Postman, jupyter, Pandas, Numpy, sklearn

Three teams in trivago really want to know about a user in real time to add some personalization to their products. For now, there are two specific insights they are interested in:

- for a particular user, what are the top-N amenities selected.
- for a particular user, what are the top-K hotels clicked on the most for a particular user.

As a member of User Profiling team, My task is with designing and implementing a service to provide this information through an API.

Deep Dream NXB	Apr 2019 - Jun 2019 (2 months)

Company: Nextbridge (Pvt) Ltd

Tools: AWS, Pycharm, Google Colab, Jupyter Notebook, tensorflow, Keras, python3, Sklearn

- Develop Deep Dream project to transfer the style of image to another one.
- Use Transfer learning to develop the Deep Learning Algo.
- Use **CNN VG16** at the backend.
- Use **Django 2.2** for this project.

Ground School of AI(Artificial Intelligence)	Nov 2018 - Present (10 months)

Company: Nextbridge (Pvt) Ltd / Mark

Tools: Spark, Kong, Docker containers, Kafka, Flask framework, neo4j, MongoDB, Cassandra, tensorflow, pytourch, Scratch Algos

The idea behind this project is to provide education and avialable globally for students to always learn new things and keep up to date according to market.

Abstract Product features
- Artficial intelligence is use to track user data for recomenations.
- Provide solutions and find the weak area of student.
- Improve each user expertise.
- Use AI to find and build Solutions.
- Easy to use and flexible for all users.

My Role
- Back-end Flask api's
- Artificial Intelligence Model
- Microservices with docker container and use kong as api gateway to manage all microservices.
- All user data menage on Spark number of database are used to manage data like neo4j for finding hidden patterns and relation among the data node of each user.
- Kafka for event management for each user to manage test case.Real time logs events of user also managed by using kafka.

Find direct and indirect relationship of Pakistan and Israel   Oct 2018 - Nov 2018 (1 month)

Company: .

Tools: Neo4j, GraphDB, Anaconda, Python, Beautiful-soup(BS4), Selenium Automation, Request Scrapy

Find Direct and In-Direct relationship of countries. Use the live data of top airline reservation sites and all countries path. Finally, generate the report with shortest path root and graphs relations of countries.
- **Web-Scraping** for live data.
- **Scripting** from scratch to find data on websites.
- **Neo4j** Graph DB to find a relationship in Data
- Automation tool for real-time streaming.

Gsmarena Mobiles Reviews Analysis   Aug 2018 - Sep 2018 (1 month)

Company: Nextbridge (Pvt) Ltd

https://www.gsmarena.com

Tools: Python, NLTK, Spyder, Orange3

Feature:
- Recommend the list of Mobiles to User according to analysis.
- Analysis of all the opinion about selected one.
- Generate the final report with mobile positive and negative data analysis.

IMAP Email Analyzer Tool   Aug 2018 - Nov 2018 (3 months)

Company: Nextbridge (Pvt) Ltd

Tools: Spyder, Thunderbird

Problem: Identify the company emails according to their subject and find some hidden pattern to categorize the data.

-Search Emails Via Internet protocol.
-you can analyze the latest emails.
-Live Analysis of all Email and upcoming one.
-IMAP POP3
-Easy to Integrate and Manage all email

Save our Native language using Deep text   Apr 2018 - May 2018 (1 month)

Company: Institute of Art and Culture

Tools: Keras Deep learning with back-end tensorflow

People are sharing informative data in the form of text so called **user-generated data.** This is the way that users use to produce huge amount of data. So this could be replaced by artificial data that machine can produce easily by using advance **Deep Learning** technique. Data is about those infected language by English in the form of literature. This is the way that machine use to improve the **infected Language.**

Social Media Top Trends using Spark   Mar 2018 - Apr 2018 (1 month)

Company: Project Big Data

Tools: Spark, Data-bricks, MLIB Spark, tweepy, Python anaconda

That's the best way to choose spark streaming to fetch data. This live data helps us to finds the top trends about 'NawazSharif'. It's a kind of boom for Humanity to analysis that kind of data so spark make it easy. Machine Learning Spark help to analysis and categorized data in the form of +ve and –ve. Spark is consistent to fetch the live data. So this whole research gave us an idea about corrupt politician ike "Nawaz Sharif" and helps to find their top trending hashtags.

Sales forecasting
Feb 2018 - Mar 2018 (1 month)

Company: Research Project

Tools: Keras Deep learning with Back-end tensor-flow, Python Anaconda

Main Objective:
- Track all the sales
- Sales with season
- Track and Trace area
- Catagrozied sales according to different area
- Prdecit Future sales.

Text Sumerization
Jan 2018 - Feb 2018 (1 month)

Company: NLP Project

Tools: NLTK, Anaconda cloud

4 steps to build a Summarizer
1. Remove stop words (defined below) for the analysis
2. Create frequency table of words - how many times each word appears in the text
3. Assign score to each sentence depending on the words it contains and the frequency table
4. Build summary by adding every sentence above a certain score threshold

Bank Fraud Detection
Jan 2018 - Feb 2018 (1 month)

Company: ML project

Tools: Keras deep learning with back-end tensorflow, Anaconda python

- Collect manual labled data from bank.
- Train machine on that data.
- **Descriptive, predictive and prescriptive** analysis using advanced algorithms.

Churn prediction using ANN
Nov 2017 - Dec 2017 (1 month)

Company: ML project

Tools: Keras using back-end tensor-flow, python Spyder

- Data from Kaggle
- The objective of this project to explore the huge amount of Datasets.
- And hands-on how people actually Solve that kind of problems.

IBM ChatBot
Jan 2017 - Feb 2017 (1 month)

Company: IBM

Tools: IBM API

Train on some specific questions to answer Just to make feel better for clients.

Explicit Video Predictor
Jan 2017 - Mar 2017 (2 months)

Company: Hackathon with collaboration of IBM,Venture-dive,PITB,Techub Connect's

Tools: Keras with backend Tensorflow, Anaconda Cloud

The main objective of this product to remove an explicit content from **youtube** like youtube create **youtube kids** because of this criticial isuue.

Details:
TechHub Connect in collaboration with VentureDive and IBM organized a hackathon. Project Idea Explicit Video Predictor main objective to remove explicit content from youtube automatically. Won the 1st prize of 1000$. Plan9 - PITB's Tech Incubator- was the Event Partner. VentureDive-was Platinum Sponsor for arranging the prize money and sending their team to mentor the participants! IBM-was Knowledge Partner for conducting workshops that helped our participants build on their ideas/products!

Social Media Brand Analysis
Jan 2017 - May 2017 (4 months)

Company: Deep Solution

Tools: Anaconda(Spyder,Jupiter Notebook), Orange3

Social media websites such as Facebook, YouTube and Twitter provide unlimited means for internet users to interact, express, share and create content about anything, including brands. Such consumers' online brand-related activities have significant consequences for firms. To effectively anticipate and direct these consequences, understanding people's motivations to engage in brand-related social media use is imperative. so in the light of a growing interest in the use of social media marketing gave us a platform to do Brand analysis on the bases of the user-generated data.

Political Sentiment Analyzer	Jan 2017 - May 2018 (1.3 years)

Company: FYP

Tools: Twitter Cloud API, Spark API for BigData, Anaconda Cloud, scikit-learn

This project represents all the strategy for the classification of data using advanced algorithms like **NB, SVM, LSTM** based on three states; negative, positive, neutral. We use AAVN (Adverb-Adjective-Verb-Noun) combination method to analysis the social media data for sentiments. We separate all the data of into negative or positive result to convert it into pattern or knowledge based and make it valuable for client in choice making

Lahore Airline	Oct 2016 - Dec 2016 (2 months)

Company: Project

Tools: Xampp,Sublime Editor,Photoshop.

Introduction:
Online Air Reservation System with complete **database design** and **Payroll System**. All the website is completely responsive with beautifull design.
- Clone of Virgin Atlantic.
- Database Normalizted to 3NF
- Resposive
- Admin Based

Link:
http://www.virginatlantic.com/
language:
- HTML5
- CSS3
- Bootstrap
- javascript
- PHP
- Xampp MYSQL

TouchBall	Mar 2016 - May 2016 (2 months)

Company: project

Tools: Unity 3D , Blender

Name of the Game: **"TouchBall"**

Total Functionality Points Attempted= "24"

Game Description:
- Infinite Runner 3D Game.
- Ball that follow the path with given speed.
- Speed of ball increase with Artificial Intelligence.
- Generate path by using Random function (AI).
- Pick the Diamonds from the path to get 3+ points.
- On every move you get one 1+ point e.g. left, right
- Check your High Score from UI.
- Retry, pause, exit button to make user friendly.
- Easy to play and understand just move left and right on the give path to get points.

Language:
- C#

AirBalloon	Jan 2016 - Feb 2016 (1 month)

Company: Project

Tools: Unity 3D

- 2D Game air balloon game
- Dynamic background
- Score Based
- AI(Artificial Intelligence)

Language:
- C#

House Rate Predictor   Jan 2016 - Aug 2016 (7 months)

Company: Kaggle

Tools: scikit-learn, Anaconda Cloud, Keras deep learning package with Tensorflow backend.

Deep learning solution for House Price Prediction **Kaggle** competition.

ONE LOOK (Search Engine using Java)   Jan 2014 - Jan 2015 (1 year)

Company: Research Based Project

Tools: NetBeans, Photoshop

Introduction:
Using GUI Data Structure Tested on 1 lack files and Directories.Everything I ever wanted to know I just ask a search engine and there the answer. So the least I can do for my future is share what I was learned.
- Developed Search Engine using(JAVA)

Specialization:
- Using best Algorithms to make time efficient.
- Time: O(nlogn)
- Space efficient
- Query processing
- Reduce redundancy
- Analyze
- Fast Searching

Data Science Courses

Company: UMT

Tools: Check Skills Area

Course
- Artificial Intelligence
- Machine Learning
- Deep Learning
- Data Mining
- Big Data
- Natural Language Processing
- Artificial Neural Network
- Calculus I
- Calculus II
- Data Structure and Algorithms
- Discrete Mathematics
- Linear Algebra
- Probability and Statistics
- Analysis of Algorithms

👥 References

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