

PERSONAL INFORMATION

Muhammad Anas

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PERSONAL STATEMENT

A bright, talented and ambitious developer with passion about cutting-edge technology and solving real world problems related to Machine Learning and Data Science. Experienced in building Data Science pipeline and handling huge amount of data in efficient way. Enthusiastic to learn and explore new areas in the world of Machine Learning and Data Science.

EDUCATION AND TRAINING

2015–2019 Bachelor's Degree in Computer Science

FAST - National University of Computer and Emerging Sciences (NUCES), Karachi (Pakistan)

2013–2015 INTERMEDIATE

Cadet College Sanghar, Sanghar (Pakistan)

2011–2013 Matriculation

Cadet College Sanghar, Sanghar (Pakistan)

PERSONAL SKILLS

Organisational / managerial skills

PROJECTS

- Final Year Project

Hardware Failure
Detection in Large
Datacenters
(Big Data ML, Pandas,
Rapids, scikit-learn,
PyCharm, Tableau)
Predictive model for hard drives failure in
data centers that minimize the effect of
disk failures and allow for more efficient
scheduled maintenance processes in
place of the inefficient reactive repair
procedures
Social Network
Analysis using Spark
(PageRank, Connected
Component, Triangle
Counting, Spark)
Describes an annotated graph-based
representation for social networks.
Approach uses graph feature analysis to
recommend links, given structural
features of individual vertices and joint
features of the start and end points of a
candidate link.
Routing Using

Reinforcement Learning
(ML, Python, Spyder)
Demonstrates that the practical task of routing packets through a network is a natural application for reinforcement learning algorithms, by simulating the packet routing in a grid/ maze like topology where the topology can be changed to observe the change in routing

Sentiment Analysis using Word Semantics
(MapReduce, Java)
Sentiment analysis of Shakespeare's plays using word semantics to count up the positive words and negative words in the dataset, then dividing the difference by the sum to calculate an overall sentiment score for the text.

Real-Time Trend analysis Using Spark
(Spark Streaming, Python, Apache Kafka)
Detecting real-time trending topics on Wikipedia using Apache Kafka as a message queue and Apache Spark streaming engine to perform the analytics.

Exploratory Data Analysis on Wikipedia
(Python, Apache Spark)
Exploration of various Wikipedia datasets while applying the machine learning and analytics techniques to get meaningful insights from the data.

Job-related skills

TECHNICAL SKILLS

KEY SKILLS

Data Science, Data Analytics, Big Data, Machine Learning, Python

PYTHON LIBRARIES

Pandas, scikit-learn, NumPy, GGplot, Seaborn, SciPy, Matplotlib, Rapids

BIG DATA & CLOUD

Hadoop, MapReduce, YARN, Apache Spark, Pig, Hive, HBase, Oozie, Spark-Streaming, Spark-MLlib, Amazon EC2, S3, RDS, EMR, IBM Watson Studio

DATABASE

SQL, NoSQL, Oracle, SQL Server, MySQL, MongoDB, PL/SQL, HBase

OTHER SKILLS & TOOLS

Tableau, Spyder, PyCharm, Pentaho, Pivot4J, C, C++, C#, Java, .NET, ASP.NET, OOP, MS Visual Studio, Jupyter Notebook, Zeppelin, Net Beans, Apache Kafka