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**Profile**

Methodical big data analytics post-graduate with strong attention to detail who quickly understand and analyse complex issues striving in data, during course firmly build advanced analytical, numerical skills. Aspiring data scientist holds statistical, machine learning algorithm and technical skills. Possess knowledge of handling data in the cloud on diverse platforms. Adequate capabilities in predictive modelling, time series analysis.

**Education**

**2017 MSc Big Data Analytics** Sheffield Hallam University, **United Kingdom**

**2012** **MBA Finance** SZABIST

# 2010 BBA Banking and Finance Muhammad Ali Jinnah University

**Technical Skills and Competencies**

•**SAS** (E-Guide & E-Miner) •**Python** (Spyder/PyCharm/Jupyter) – Numpy, SciPy, Seaborn, Matplotlib, Statsmodel, Scikit-Learn, Gensim/NLTK, TensorFlow, Keras, Theano, Scrapy-API’s, Selenium •BS4 •Spark/PySpark-MLlib •**R-Studio**

•HDFS •MapReduce •Hive •Pig •MSSQL •MongoDB •Cassandra •Neo4j •MS Azure •Google Cloud • AWS •Nifi •Sqoop •GIT-VCS • VMware • Data Warehousing • ETL •A/B Testing •Tableau •Power BI •Qlik Sense/View •MS Excel

**Core Modules**

• Statistical Modelling • Data Mining • Handling Data in the Cloud • Big Data and Distributed Systems

• Advanced Statistical Modelling • Data integration • Industrial Expertise • Social & Economic Aspects of the Cloud

**Professional Experience**

**Institute of Business & Technology (IBT) formerly (BIZTEK), Karachi, Pakistan**

**Assistant Manager Academics** (Sep 2013 – Dec 2015)

* Supervise a team of 8 Academic Coordinator across 3 campuses, ensuring to establish high-quality service.

**Accounts & Academic Officer** (Feb 2013 to Sep 2013)

* Compute the cost of courses and forecast profitability. Responsible for delivering financial and budgeting reports
* Accelerated support to the budget executive for cost analysis, income and cash control.
* Coordinate various faculty searches and maintain faculty search database. Accommodate assistance with recruitment activities, student interviews, and information sessions.
* Visualizing key indicators in education setting on a weekly, monthly and quarterly basis on excel.

**DANLUB Import / Export Company Ltd, Karachi, Pakistan**

**Accounts/Administration Executive** (Jan 2011 – Sept 2012)

* Perform account duties, maintaining a balance sheet, profit & loss statements employing accounting software.
* Produce financial analysis with actual and budget comparison to Treasurer monthly.
* Administer employee records. Maintain supplier accounts. negotiate with clients, vendors, subcontractors.

**Wemyt Pvt. Ltd Karachi, Pakistan**

**Project Coordinator** (Aug 2010-Dec2010)

* Assist the project manager in drafting and issuance of project proposals, tenders, budgets, cash flows.
* Partnered relevant institutions, NGO’s by attending meetings, seminars, workshops.
* Create strategic plans with policies to establish a way to complete the project on time and high quality.

**Internships**

**Habib Bank Limited** (June–July 2009)Task: finance, AML, account opening, cheque clearance, credit analysis.

**Gul Ahmed Textile** (Dec 2012–Jan 2013) Responsibilities: processing unit operations, output estimation and analysis.

**Certifications D**uration **S**ource

Machine Learning A-Z™: Hands-On Python & R 41 Hours Udemy

Powerful Web Scraping & Crawling with Python 9 Hours Udemy

**Dissertation -** “How useful are open data sources provided by Marie Curie and Public Health England for individuals to hold an insight about the end of life care in the United Kingdom - Tableau-Based analysis.”

**Achievements and Interests --** Awarded shield & certificate for best employee of the month at IBT University.

Member of Pakistan society at Sheffield Hallam University / Achieve 1stposition for state swimming championship.

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**Data Projects**

**Microsoft Azure cloud services, data storage on Platform as a Service(PaaS)**

Deployed simple messages application to Azure cloud services. Application stores text messages and associated images to an Azure storage account. Messages application use both tables and blob storage.

* Create storage account, cloud service and deploy messages application on Azure.
* Run and configure messages application, Investigate Azure storage using SQL.
* Deployment of Azure SQL DB server, configure firewall rules, allow access from multiple IP addresses.
* Create SalesDB database & tables in SalesDB in Azure SQL DB server, bulk upload data to SalesDB.
* In Visual Studio create more tables in SalesDB, populate products and sales orders tables.

**Azure VM & SQL server(SaaS) – Managed Hadoop environment in the cloud, security issues**

* Run the local client - VMware, access MS Azure portal, create a storage account, install security certificates.
* Install client VPN package remote desktop connection to Azure VM, create a database via VM desktop.
* Set up a remote connection to SQL server on VM, import data into SQL server from the local client.
* Configuring SQL server 2012 virtual machine in Azure including MS Excel with Hive ODBC Plug-in.
* Provisioning an HDInsight Hadoop cluster on Azure, connecting to your remote desktop.

**Google Cloud Platform**

* Create and connect SSH client managed on a VM instance in google cloud compute engine.
* Install MySQL database, use and test MySQL, populate the database with cleaned data.

**Oracle APEX – GUI environment (SQL Plus) – Data import and performance tuning**

* Performance tuning & optimization, physical layers, disks and RAM, SQL optimization.
* Database server processes, data types, location and volumes, relationships and sequences set up.
* Techniques used for data validation and cleansing patterns, automating data cleansing in Excel.

**Cassandra on virtual machines (OS- Ubuntu) – Flights dataset**

* On VMware create two VM running the Ubuntu OS and install Cassandra. Create Cassandra cluster.
* Use Cassandra nodes to create keyspaces and tables, populating tables and querying data. CRUD operations.

**Neo4j’s Graph database (Cypher Query Language) – Movies & Northwind dataset**

* A relational database is imported into Neo4j and converted to a graph database, practising Neo4j’s CypherQL.
* Configuration changes to Neo4j database system employing Neo4j shell user interface.

**MongoDB database (SQL)**

* Mongo DB installation and running up Mongo DB server in Ubuntu Linux VM cloud environment.
* Interacting MongoDB using PuTTY secure shell client, CRUD operations, moving bulk data with MongoDB Compass.

**Acquiring, manipulating data in Hadoop, Hive, Pig (Hue) - Wordcount program**

* Run the Hortonworks Sandbox on CentrOS, Linux machine in VMware 14, copying VM image.
* Using PuTTY to interact with the Sandbox, run Hadoop and pass MapReduce.Jar file for word count.
* Python (v2) and JAVA MapReduce wordcount, connect with HDInsight via PUTTY to run the Python wordcount.

**Hadoop using PIG**

* Applying a pre-configured VM with MS Azure HDInsight (Hadoop 2.7.3), accessing VM via MobaXterm - an SSH client application. Write a Pig Latin script to handle the word count (text file in HDFS).
* Inspect the results via the web UI – Ambari. NLP analysis using Pig with python UDF’s – User Define Functions.

**HCatalog, Hive and Pig – World Airports dataset**

* Translate HiveQL statements into MapReduce jobs, submitted to Hadoop for execution.
* Utilizing CSV, JSON files to produce a sequence of MapReduce jobs for the manipulation, analysis of big data in Pig.

**Apache Nifi – Converting CSV file to Avro, JSON format to ingest in NoSQL database**

* Transforming different data sources in JSON, managing data flow from different sources, to and from HDFS.
* Process include GetFile-InferAvroSchema-ConvertCSVToAvro-ConvertAvroToJSON-Save the JSON.
* Practising Nifi functions for twitter data acquisition.

**Apache Sqoop - Sharing data between Hadoop and different databases - HDFS**

* Data Acquisition – Importing, exporting multiple tables and row data between Hadoop and MySQL employing Sqoop.

**Final assignment – Handling data in the cloud – Cassandra, MongoDB, Microsoft Azure**

* Working for software house which sells applications using MySQL, Oracle and MSSQL server at back-ends.
* Move from on-premises databases to Cloud DB’s – MS AzureSQL and whether to continue SQL DB’s or NoSQL DB’s.

**Final assignment - Big data & distributed system (Python & R implementation)**

* The project Nationometer - a miniature version of the existing concept called Worldometers. A Web UI displaying data retrieve from different sources and domain. Data constantly changing providing real-time statistics.
* Extracting Twitter data, Real-time stock market, currency exchange with web scraping – python & R.

**Final assignment – Data integration**

* Timber merchant store data – data types & structure, data cleansing, ETL, staging, schema design, stars, cubes.
* Dimensional data model’s construction, data warehousing, procurement data mart.

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