

BIA CHAUDHRY

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Islamabad, Pakistan

EDUCATION

National University of Sciences and Technology

2016-2020

Bachelor of Engineering in Software Engineering

Overall GPA: 3.56/4.0

EXPERIENCE

Teradata GDC

June 2019 - July 2019

Data Integration Intern

Islamabad, Pakistan

- Initial training under Data Integration department lead by Abdul Haseeb Ahmed (Practice Manager - Data Integration at Teradata)
- Accomplished Teradata 14.0 fundamentals by 49% in 4 weeks of Teradata Factory
- Increased MySQL query optimization level by around 5% with Teradata Virtual Machine hands-on experience
- Analyzed Zomato Restaurant Data and found 91% of the dataset, as well as the outcomes, are inclined towards Asian cuisines
- Achieved 2 weeks of fundamentals of managed services tools such as Service Now, data stream architecture, locks, and backup
- Completed 4 assignments comprised of query optimization using statistics and space

LearnObots

May 2019 - June 2019

Software Quality Assurance Intern

Islamabad, Pakistan

- Worked on the Software Quality Assurance of RobotWala Application, the internship lead by Arslan Arshad (Lead Software Engineer at LearnObots)
- Conducted 95% of black-box and 75% of white-box testing for Robotwala web application
- Achieved 10% test case automation for Robotwala
- Created 80% of all the test cases using Selenium and 95% using manual bug reporting tools such as MS Excel and Asana
- Accomplished 3% of dummy data seeding using Django and PostgreSQL for testing purpose
- Documented around 95% of the test results and 98% of the bugs for future reference

INTERESTS

- Data Science
- Data Analysis
- Data Engineering
- Machine Learning
- Artificial Intelligence
- Web Development
- Business
- Computer Vision
- Management
- Programming

TECHNICAL SKILLS

Programming Languages	Python, C++, Java, and Lua
Machine Learning	Numpy, Pandas, and sklearn
ML Frameworks	TensorFlow, Keras, Streamlit, and Django
Data Mining	Excel, Python
Data Engineering	Teradata, ETL, MySQL, and Talend
Data Modeling	Star UML, and Lucid Chart
Data Visualization	Power Bi, Google Data Studio, MS Excel, and Matplotlib
Data Analysis	Descriptive Modeling, and Associative Modeling
Data Science	Probability & Statistics, and Predictive Modeling
Natural Language Processing	Neural Machine Translation, and NLTK
Web Development	Java Script, JQuery, PHP, HTML, CSS, and Bootstrap
Software Tools	Wirehark, Wordpress, Selenium, and LaTeX
Documentation	Microsoft Powerpoint, MS Word, and MS Excel
Visual Design	Paint 3D, Adobe Photoshop, and Canva

SOFT SKILLS

- Creativity & Innovation
- Integrity & Accountability
- Teamwork
- Problem Solving
- Business Acumen
- Customer Centricity
- Communication
- Adaptability
- Curiosity
- Growth Mindset
- Eagerness to Learn and Apply

TECHNICAL PROJECTS

Roman Urdu to Urdu Transliteration Engine Final Year Project (2019-2020)
Industry Partner Accolade Consulting Excellence (ACE)

Tool Used: NLP, NMT, Python, Keras, Pandas, Numpy, matplotlib, Bootstrap, Flask, AWS, colab and Jupyter Notebook

Team: Dr. Muhammad Ali Tahir (Advisor), Dr. Bilal A Khaliq (Industry Partner), Ameer Hamza (Colleague), Sadia Naseer (Colleague), Bia Chaudhry.

Developed a scalable, context-aware, and generic system (Model+Web API) for transliteration of roman Urdu to the Urdu language using the Seq2Seq model with the Attention mechanism. *Achieved: BLEU Score: 0.78/1.0, Test accuracy: 89%, Correct %age: 63.3 with FastText C2W (Character2Word) Embedding*

An Interactive End-to-End Data Driven Web Application in Python Data Science
Tool Used: Python, Streamlit, and Jupyter Notebook

I worked on data-driven web applications. These applications provide an interactive view of data in the form of a dashboard. I found Streamlit (Python Framework) very useful in this regard. I built and deployed an interactive web application using Python and Streamlit. Link: [Medium Article](#)

Productivity Analysis amid Pandemic Situation Data Science - Data Analytics
Tool Used: Data Collection using Google Forms, Google Data Studio, and CSV file

This study is meant to provide a brief overview of how the productivity of different sectors effected amid the current pandemic situation. The report and visualization charts are created using Google Data Studio. Google Data Studio helps to create and manage analytical reports easily and effectively. Link: Analytical Report

Survey of Final Year Students to get insights

Data Analytics

Tool Used: Data Collection and visualization using Google Forms

In this project I collected data from Final Year University students (mainly from my university NUST), when I was still in my final year. The survey aims at figuring out the sentiments of graduation class regarding several aspects of their university and other experiences. Link: Project Detail

Similarity between Documents

Natural Language Processing

Tool Used: Python, NLTK, Pandas, Numpy, beautifulsoup4, sklearn, networkx, urllib, and Jupyter Notebook

Using NLP techniques I found the similarity between several documents. The processes I used include: TF-IDF, Cosine-similarity, Soft-Cosine-Similarity, Fasttext Word Embeddings, Clustering : Dendograms, Visualization : Network Graph, Evaluation Metric : Accuracy Link: Source Code

Reading Habit Analysis

Machine Learning - Data Analytics

Tool Used: Python, Pandas, Numpy, matplotlib, NLTK, sklearn, KMeans, AgglomerativeClustering, DecisionTreeClassifier, and Kaggle

I collected and analysed the data for getting the answer to the question: "What Motivates you to read?". I applied Clustering Decision Tree approach to generate results. Link1: Source Code Link2: Medium Article

A Sunday Bazaar Web application

Web Engineering

Tool Used: MySQL, PHP, HTML, CSS, and Bootstrap

I along my Team developed a multilingual web application for customers and vendors to digitize the Sunday bazaar inventory items

A Real Estate Web Portal

Database Systems - Software Engineering

Tool Used: MySQL, PHP, HTML, CSS, Java Script, and Bootstrap

I and my team developed an interactive web portal for property dealers so that both the dealers and the customer can use the portal to select and confirm the required property

VOLUNTEERING ACTIVITIES

Model School & Welfare Trust

2020

Teaching Digital Skills to Kids

Rawalpindi, Pakistan

- We a team of 9 members taught digital skills to school going kids and conducted problem solving and creativity activities for the target audience.

Major League Hacking

2018

Member of Organizing Committee

Microsoft & GitHub sponsored event, NUST, Islamabad

- I was responsible for the registration and organization of the event at NUST-SEECs.

ACHIEVEMENTS

Data Explain-ability Challenge

2020

Our team won 3rd rank

Technovers, Pakistan

Our team consisting of three members (Farhana Shafi, Rahat Ul Ain, Bia Chaudhry (Team Lead)), performed data analysis in four major steps:

- First, we implemented a time-series analysis to examine the region-wise trends of several factors
- Then, we compared all the regions considering parameter ratios
- Third, we drew insights from previous comparisons
- Finally, we rated the top five regions [Link:Source Code](#)

POSITIONS OF RESPONSIBILITY

Event Co-Head

2019

Youth Entrepreneurial Society(YES)

NUST, Islamabad

I with my Team conducted and organized the 2 technology and entrepreneurship events:

- Lounging with an Entrepreneur 4.0, Guest: Mr. Zain Ashraf Mughal
- A Talk with Leon Crisp (CEO & Founder of SecureVirtual and Ortoo Ltd.)

Executive Admin Events

2019

Youth Entrepreneurial Society(YES)

NUST, Islamabad

I performed executive duties under the Admin Events team

Executive Publications

2019

NUST Debating Society

NUST, Islamabad

While Performing executive role under NUST Debating Society I was responsible for working under the Publication Team & assisting NUST-IV debating competition

Executive Graphics

2019

IEEE

NUST, Islamabad

I was responsible for the social media graphic designing for IEEE events

COURSES

- | | |
|---------------------------------|--------------------------------|
| • Data Science | • Probability & Statistics |
| • Machine Learning | • Software Quality Engineering |
| • Natural Language Processing | • Speech & Image Processing |
| • Data Warehousing | • Object Oriented Programming |
| • Database Systems | • Sequence Modeling |
| • Data Structures and Algorithm | |

CERTIFICATIONS

1- Basic Sentimental Analysis with TensorFlow

2020

Coursera

Online

2- Master Data Analysis with Python - Intro to Pandas

2020

Udemy

Online

3- Queen Mary University of London IOT workshop

2018

QMU

NUST, Islamabad

EXTRA-CURRICULAR ACTIVITIES/ HOBBIES

- Blog writing
- Poetry
- Painting
- Sketching
- Book reading
- Podcast recording
- Graphic designing
- Video editing
- Journal writing
- Photography
- Interior designing