Zain Hamid

Nationality: Pakistani

in LinkedIn: https://linkedin.com/in/zainrhamid

ABOUT ME

Results-driven data professional with expertise in data analysis and data science. Proficient in utilizing specialized tools for data extraction, analysis, trend identification, system optimization, and effective communication with stakeholders

WORK EXPERIENCE

Data analyst
Payactiv [05/01/2022 – Current]

City: Islamabad
Country: Pakistan

I have a strong background in data analysis and data science. Leveraging specialized tools such as Power BI and Looker Studio, I excel in data extraction, analysis, trend identification, system optimization, and communication with stakeholders. My accomplishments include:
- Utilizing Power BI and Looker Studio to efficiently extract and manage data.
- Responding to data-related inquiries and maintaining meticulous query records.
- Conducting thorough data analysis to identify patterns and trends.
- Streamlining data workflows and optimizing systems for increased productivity.
- Proactively researching cutting-edge techniques for data utilization and staying ahead of industry trends.
- Creating clear and concise reports and visually appealing charts using Power BI and Looker Studio to effectively communicate data-driven insights to non-technical audiences.
- Delivering engaging presentations that showcase the impact of data-driven insights.

In addition, I have achieved the following:
- Automated 330 tasks out of 444, increasing teamwork automation from 30% to 75% in a year, resulting in significant time and resource savings.
- Led successful Salesforce CRM integration, automating reporting processes and improving data accuracy, efficiency, and accessibility.
- Streamlined workflows, optimizing team productivity, reducing redundancies, and ensuring timely project completion resulted in the revenue generation of $21.2M USD and achieved cost savings of $37.5M USD in 2022.

MS Researcher
AI Enabling Technologies Research Center, CoE-AI [31/03/2022 – 30/03/2023]

City: Islamabad
Country: Pakistan
Website: https://bahria.edu.pk/coeai/zain-r-hamid/

- Conducted research on data mining with a focus on "Healthcare Insurance Claim Fraud Detection Through Data Mining Techniques."
- Leveraged expertise in industrial business intelligence tools, including Power BI, to analyze and visualize research data effectively.
- Guided and mentored new interns and junior students, providing valuable support and insights into research-related problems.
- Collaborated with a multidisciplinary team of researchers to design and implement data mining algorithms and techniques for healthcare insurance claim fraud detection.

Technical Support Specialist
Payactiv [01/01/2020 – 31/01/2021]

City: Islamabad
Country: Pakistan

As a Technical Support Specialist, I was responsible for monitoring data processing, collaborating cross-functionally with different teams, ensuring accurate data importation, and providing effective problem analysis and documentation. Key responsibilities included:
- Monitoring data processing to identify and promptly resolve issues.
- Collaborating with cross-functional teams, including designers, developers, customer service, and engineering support, to address data-related challenges.
- Ensuring accurate and error-free importation of received data.
- Conducting problem analysis and documenting root causes.
- Effectively communicating technical updates and statuses to end-users.

EDUCATION AND TRAINING

MS Data Science
Bahria University [09/01/2021 – 30/03/2023]

Address: 04406 Islamabad (Pakistan)
Website: https://www.bahria.edu.pk/

MCs
PMAS Arid Agriculture University Rawalpindi [01/08/2018 – 01/08/2020]

Address: 46000 Rawalpindi (Pakistan)
Website: https://www.uaar.edu.pk/index.php

LANGUAGE SKILLS

Mother tongue(s): **Urdu**

Other language(s):

English

LISTENING C1 **READING** C2 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Visualization
Power BI / Data Visualization Tableau (Good Standing) / Looker Studio

Programming Languages / Libraries
Python / C# / Numpy, pandas, matplotlib, Tensorflow

Databases
SQL / Store Procedure

AI
Data Mining / Computer VIsion / Natural Language Processing

Other
Microsoft Office

PROJECTS

Healthcare Insurance Fraud Detection Through Data Mining Techniques

[10/2022 – 03/2023]

- The goal of this research project was to detect healthcare insurance fraud through the use of data mining techniques. In order to make the data more understandable for the machine, we have performed various preprocessing techniques on the unsupervised data.
- We applied different data mining methods to identify anomalies and potentially fraudulent activity in the healthcare insurance sector. Healthcare insurance fraud is a significant issue that has harmful consequences for both individuals and the healthcare industry.
- By using data mining techniques to detect fraudulent activity, we can effectively prevent fraud and protect the healthcare industry

Teamwork Automation Enhancement using Python, Pandas, and Selenium

[06/2022 – 10/2022]

In this groundbreaking project, I successfully automated a remarkable 330 out of 444 tasks, revolutionizing teamwork automation within the organization. Leveraging the power of Python, Pandas, and Selenium, I spearheaded a transformation that catapulted the team's automation capabilities from a mere 30% to an impressive 75% in just a single year.

Crime Analytics

[02/2020 – 07/2020]

- This final year project involves the use of big data techniques to handle and analyze the Chicago Crime Dataset. The Hadoop framework was implemented to process and store the data, and Power BI was used for interactive dashboards.
- The project has the potential to monitor crimes and assist law enforcement agencies in creating policies. It can help to make a significant impact in terms of crime prevention and policy making in the field of law enforcement.

Image Segmentation using PyTorch

In this project, I worked with an image-mask dataset for segmentation. To handle the dataset, I created a custom dataset class using PyTorch that can load and preprocess the image and its corresponding mask.

Link: https://github.com/zainrhamid/DeepLearning/blob/main/NN/Image_Segmentation_with_PyTorch.ipynb

Lungs Cancer Detection using CNN Deep Model

This is a Python project for lung cancer detection using a Convolutional Neural Network (CNN) deep model. The project consists of four main parts: building a data pipeline, preprocessing data, building the deep neural network, and evaluating performance.

Link: https://github.com/zainrhamid/DeepLearning/tree/main/LungCancerDetectionUsingCNN

Cancer Detection using Machine Learning

This project focuses on detecting breast cancer using various machine learning algorithms, namely Logistic Regression, Decision Tree, and Random Forest. The implementation utilizes popular Python libraries such as scikit-learn (SKLearn), pandas, numpy, and seaborn.

Link: https://github.com/zainrhamid/MachineLearning/tree/a905ba7ae4931114a9b79f20142ed3a3cc5afa4a/

Breast Cancer Detection Through LR%2CDT%2CRF

CERTIFICATIONS

SQL For Data Science

Link: https://www.coursera.org/account/accomplishments/verify/NYZ74UN2UJQC?

utm_source=link&utm_medium=certificate&utm_content=cert_image&utm_campaign=sharing_cta&utm_product

=course

Convolutional Neural Networks in TensorFlow

Link: https://www.coursera.org/account/accomplishments/certificate/QGBJCRLRV5UJ

Natural Language Processing in TensorFlow

Link: https://www.coursera.org/account/accomplishments/certificate/D3XDWNBE7HMU

TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Link: https://www.coursera.org/account/accomplishments/certificate/7EKPUAUL538G

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

Link: https://www.coursera.org/account/accomplishments/certificate/QWETWXASH6WU

Structuring Machine Learning Projects

Link: https://www.coursera.org/account/accomplishments/certificate/H7USXZUUQM49

Neural Networks and Deep Learning

Link: https://www.coursera.org/account/accomplishments/certificate/84E3NWYQTS93

Big Data Foundations - Level 1

Link: https://www.credly.com/badges/11f1c281-bfd9-484b-872d-cdf7a75289aa/linked_in_profile

Introduction to Python

Big Data Technologies