



Zain R. Hamid

Nationality: Pakistani  **LinkedIn:** <https://linkedin.com/in/zainrhamid>

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ABOUT ME

With 5 years of experience in the tech industry. Proven ability to collect, analyze, and interpret data to drive insights and decision-making. Expertise in Python, SQL, and PowerBI. Master of Science in Data Science from Bahria University. Consistently updated with the latest trends in AI. Seeking a challenging position where I can use my skills and experience to make a significant contribution.

WORK EXPERIENCE

Research and development manager

CapiPlan [01/01/2024 – Current]

City: Dubai | Country: United Arab Emirates

R&D Leadership:

- Lead the R&D efforts to identify, evaluate, and integrate emerging technologies and innovative solutions.
- Develop and execute R&D strategies that align with company goals and drive technological advancements.
- Oversee the planning, execution, and delivery of R&D projects, ensuring timely and high-quality results.
- Collaborate with other departments (Product, Marketing, etc.) to align R&D initiatives with business needs.

Backend Development:

- Design, develop, and maintain backend systems and APIs using Flask and Python.
- Implement scalable and efficient code that meets performance, security, and quality standards.
- Integrate third-party services and APIs as needed to enhance the functionality of our solutions.
- Optimize backend processes for performance and reliability, including database management and data processing.

Data analyst

Payactiv [05/01/2022 – 23/08/2023]

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.

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>

PUBLICATIONS

[2024]

[Healthcare Insurance Fraud Detection Using Data Mining](#) Healthcare insurance fraud detection faces challenges from evolving schemes and data complexity, hindering effective detection. A methodology combining association rule mining and unsupervised learning techniques is proposed in this study to detect healthcare insurance fraud.

PROJECTS

[10/2022 – 03/2023]

Healthcare Insurance Fraud Detection Through Data Mining Techniques

- 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

[01/06/2022 – 01/10/2022]

Teamwork Automation Enhancement using Python, Pandas, and Selenium 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.

[02/2020 – 07/2020]

Crime Analytics

- 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.

Other Projects I usually do projects related to AI and updating them on my GitHub, some of them are as follows:

- Lungs Cancer Detection using CNN Deep Model ([link](#))
- Cancer Detection using Machine Learning ([link](#))
- Image Segmentation using PyTorch ([link](#))
- Predict The Next Word ([link](#))
- Time Series Forecasting ([link](#))

CERTIFICATIONS

[01/06/2023 – 27/08/2023]

DeepLearning.AI TensorFlow Developer

This specialization contains following courses,

- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning ([link](#))
- Convolutional Neural Networks in TensorFlow ([link](#))
- Natural Language Processing in TensorFlow ([link](#))
- Sequences, Time Series and Prediction ([link](#))

[01/01/2023 – Current]

Deep Learning Specialization

Following courses are completed,

- Neural Networks and Deep Learning ([link](#))

- Structuring Machine Learning Projects ([link](#))
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization ([link](#))
- Convolutional Neural Networks ([link](#))

Other Certifications

Some of the other certifications are as follows:

- SQL for Data Science ([link](#))
- Big Data Foundation ([link](#))
- Big Data Technologies
- Introduction to Python

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