

Ruhma Baig

Data Analyst | Power BI | MS Excel | Python | SPSS | SQL

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EXPERIENCE

EXCELERATE

UAE, Remote

Data Analyst - Intern

Jun 2025 - Aug 2025

- Presented and submitted reports with data, producing summaries and flow charts to enhance presentations.
- Received data-related queries and maintained log for data analysts to respond to, supporting smooth communications.
- Used single or multiple systems to generate summaries and compare old and new data.

INSTITUTE OF EMERGING CAREERS

Karachi, Remote

Data Analyst (Freelance)

Mar 2025 - Present

- Analyzed clinical datasets to identify trends and patient risk profiles
- Developed visual dashboards using Power BI to support decision-making.
- Conducted statistical analyses including cross-tabulations and significance testing.

LIAQUAT NATIONAL HOSPITAL

Karachi, Remote

Physiotherapist (Home-Based & Volunteer)

Jan 2024 - Dec 2024

- Maintained detailed treatment records and applied data tracking for recovery monitoring.
- Supported patient care using insight-driven planning based on progress reports.
- Collaborated with caregivers and educators for outcome-focused rehabilitation strategies.

PROJECTS

STROKE PREDICTION & RISK FACTOR ANALYSIS

- Analyzed dataset of 5,110 patients to explore stroke prevalence based on medical and lifestyle variables.
- Performed Chi-Square testing to establish relationships between hypertension, heart disease, BMI, and stroke occurrence
- Presented findings with actionable insights to inform preventive healthcare strategies.

CORRUPTION PERCEPTION DATA (CPI) ANALYSIS

- Performed exploratory data analysis on global CPI scores to assess corruption trends from 2000 to 2023.
- Visualized trends using line and bar plots to highlight shifts in average CPI over time.
- Identified top 10 least and bottom 10 most corrupt countries for the most recent year.
- Communicated insights clearly through annotated visuals for data storytelling.

CANCER PATIENT SURVIVAL ANALYSIS

- Cleaned and analyzed clinical records of 10,000 cancer patients to uncover survival patterns and treatment outcomes.
- Performed exploratory data analysis (EDA) on variables such as age, treatment types, and disease stage to identify survival correlations.
- Visualized survival trends to support data-driven insights for improving patient care strategies.

GRADED MOTOR IMAGERY (GMI) RESEARCH STUDY

- Designed and executed a research survey studying the clinical adoption of GMI in frozen shoulder treatment.
- Cleaned and analyzed quantitative survey data to identify key adoption barriers.
- Presented results at a research forum, highlighting neuroscience-based rehabilitation methods.

EDUCATION

DATA ANALYSIS

Institute Of Emerging Careers, IEC

Bootcamp

Feb 2025- Aug 2025

LIAQUAT NATIONAL MEDICAL COLLEGE

Doctor Of Physical Therapy. GPA: 3.5

Bachelors - DPT

Thesis Graded Motor Imagery (GMI) Research Study

Dec 2019 - Dec 2023

TECHNICAL SKILLS & CERTIFICATIONS

Technical Skills:

- Power BI
 - Python (Pandas, Matplotlib, Seaborn)
 - SQL
 - Data Cleaning & Transformation
 - Exploratory Data Analysis (EDA)
 - Statistical Testing (Chi-Square, T-test)
- Cross-Tab Reporting
 - Data Storytelling
 - Healthcare Data Analysis
 - Research Presentation
 - SPSS

Certifications:

- Data Visualization with Power BI – Workforce Institute
- Data Analysis Certificate – Workforce Institute
- Data Analysis Certificate – Udemy
- Certified in Research – Liaquat National Hospital

INTERESTS

- Healthcare Innovation & AI in Medicine
- Data-Driven Public Health
- Educational Volunteering
- Clinical & Neuroscience Research
- Emerging Technologies