Shruti Garka
Data Analyst

Skilled data analyst with 2 years of experience, specializing in healthcare innovation. Proficient in Excel, Python (Pandas, NumPy), R, SQL, and BI tools. Expertise in data cleaning, manipulation, statistical insights, and impactful visualizations. Dedicated to translating raw data into actionable healthcare insights to drive transformative business decisions.

Personal Details

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Technical Skills

Python (Pandas, Numpy)

R (ggplot2, tidyr)

SQL (Postgre SQL, ETL)

BI tools (Tableau and Power BI)

Excel (Pivot tables)

Data cleaning

Statistical analysis

Machine learning (Clustering and Regression)

Languages

English (Fluent)

German (B1 Level)

Work Experience

Data analyst and lab technologist | Ingenium Labs GmbH, Frankfurt | Mar 2022 - Mar 2023

- Achieved a data completeness rate of 95% through thorough data cleaning processes, resulting in improved data accuracy and reliability for analysis and decision-making.
- Extracted insights from datasets in Excel, guiding strategic choices through trend identification.
- Crafted 10 impactful data visualizations using R, Python, and Excel, enhancing communication with stakeholders and facilitating informed strategic actions.
- Achieved 98% accuracy in 100's of PCR and ELISA-based tests, ensuring reliable diagnostic outcomes.

Medical technologist | Centogene GmbH, Frankfurt | May 2021 – Dec 2021

- Achieved 95% diagnostic test accuracy by proficiently conducting a diverse range of tests, including antigen and PCR assays (MIC, Liat), ensuring precise patient care.
- Demonstrated 98% precision in RNA extraction and real-time PCR (Rt-PCR), showcasing meticulous attention to detail and advanced molecular analysis expertise.
- Maintained 95% data accuracy by documenting comprehensive sample records in LIMS, enabling organized data management and informed decision-making.

Projects

Influenza Season Analysis and Preparedness Strategy | CareerFoundry GmbH | May 2023

- Analyzed 5 years of historical influenza data to derive average infection rates and peak periods for accurate future predictions.
- Created a comprehensive preparedness strategy document (Tableau Dashboard) with specific actions and timelines, optimizing response efficiency during peak seasons.

Optimizing Instacart Shopping Experience through Data-Driven Strategies | CareerFoundry GmbH | July 2023

- Created a comprehensive Data Dictionary and Entity Relationship Diagram for seamless data management and understanding.
- Implemented advanced filtering and joining techniques, resulting in a 25% faster data retrieval process.

Analysing Covid-19 Impact via Questionnaire Data | Ingenium Labs GmbH | May 2022 – Oct 2022

- Collected data from more than 30,000 participants with a 90% response rate, ensuring representativeness.
- Quantified correlations between vaccination, symptoms, and demographics with scatter plots.
- Employed R packages such as dplyr, tidyr, ggplot2 for impactful visualizations, enhancing stakeholder comprehension.

Data-Driven Study on Long COVID Insights with Automated Reporting | Ingenium Labs GmbH | Nov 2022 – Mar 2023

- Ensured data accuracy and comprehensiveness by collecting and organizing information from 50+ participants.
- Automated report generation in Excel, summarizing findings for 5 symptom categories, resulting in time-saving.
- Provided medical interpretations and recommendations based on data analysis, contributing to enhanced patient management strategies.

Award

Ranked 2nd in B.E. Biotechnology (2016) at VTU

Education

Data Analytics Program | May 2023 – Sep 2023 | Career Foundry GmbH, Germany

Masters in Molecular Life Sciences | Oct 2018 – Mar 2021 | Göttingen University, Germany

Bachelors in Biotechnology | Sep 2012 – Jun 2016 | Dayananda Sagar University, India

Certifications

Python for Beginners 2021: Your Gate to the Python World | Udemy | Jan 2021
Introduction to R | Udemy| Aug 2020

Publications

Exploring the binding potential of carbon nanotubes and fullerene towards MDR pathogens (Invited book chapter) (2018)

Environmental monitoring and assessment of antibacterial metabolite producing Actinobacteria. Environ Monit Assess. 189(6):283 (June 2017)

Nanoparticle Fullerene demonstrated stable binding with antibacterial potential towards S.typhi. J Biomol Struct Dyn. 6:1-53 (Nov 2016)