

Power BI: Turning Data into Actionable Insights

Dr. Shahzaib Ahamad*

Translational Bioinformatics Group, International Centre for Genetic
Engineering and Biotechnology, New Delhi, India

Email: shah.bioinfo@gmail.com



Power BI is a data visualization and analysis tool that allows users to connect, clean, and explore data through interactive dashboards. In bioinformatics and healthcare research, large datasets such as genomic profiles, clinical records, biomarkers, and transcriptomic data require clear visual interpretation to support meaningful conclusions. The workflow includes data import, preprocessing using Power Query, model building, and interactive plots using DAX (Data Analysis Expressions) functions. Power BI enhances bioinformatics research by enabling real-time data exploration, easy result sharing, and improved decision-making. Overall, this session highlights how Power BI can support data-driven research in life sciences and healthcare, among other areas.

Keywords: Power BI, Data Visualization, Biomedical Data Analysis, Dashboard Analytics, Data Integration, Power Query.