DIBYANSHU KUMAR

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With 10+ years of hands-on experience as a analyst, data drive insights. I am a self-motivated, adaptable, and goal-driven performer skilled in driving strategic decision-making through insightful data analysis. I possess the expertise to extract valuable patterns and trends from complex data sets. A key strength of mine lies in effectively communicating data insights to both technical and non-technical stakeholders. I have supported various industries in areas such as product design, pricing, strategic decision-making, and development sector, delivering impactful results consistently.

Key Software Skills: Data Analysis, Tableau, Power BI, DAX, R, Python, VBA, Word, PPT, Excel, MS-SQL,SQL, Data Processing, Azure, Share Point, Google Data Studio, Looker studio, Google form Design, Open Data Kit (ODK), Kobo Toolbox, UI skill, dashboard development, GIS, QGIS, ArcGIS, DHIS2 Form Design and dashboard creation, Data Quality Improvement process, Data Validation, Data Extraction, Data Management, Data Cleaning, Data Visualization, Data Mining, Analytics, Report writing, Thematic and bespoke report.

Work Experience:

1. ICF Consulting India Private Limited, India,

Senior Data /IT Specialist (Nov. 2022 to Oct. 2023)

My contribution to the USAID-funded project IDDS (TB program) India team has been crucial, with a particular emphasis on dashboard construction, data administration, analysis, and visualization. Among my duties were assisting with data collection and using different technologies to make procedures run more smoothly.

The creation of a forecasting tool to help NRLs, IRLs, and TB C&DST laboratories estimate the need for laboratory consumables items was one of my major accomplishments. This tool has helped to increase planning and resource management efficiency.

To improve the interpretation of the lab data, I also automated a grading tool that was used to score NRLs and IRLs. The assessment procedure was shortened by this automation, enabling more accurate and rapid evaluations.

In addition, I oversaw the digitization of the OSE feedback form and checklist for supervisory staff members from NRLs, IRLs, and Districts who conduct OSE visits. The digitization project has enhanced the effectiveness of data collecting and made it easier to track supervisory visits.

All things considered, my background in utilizing automation tools and data-driven solutions has greatly aided in the project's performance by facilitating improved resource allocation and decision-making in support of the TB program's goals.

Data collection tool using Kobo and Google form:
"OSE Checklist and monitoring indicators for Truenat facility"
https://ee.humanitarianresponse.info/x/uP45Eovh
Dashboard Link for “Hisar TB Data analysis”:
https://lookerstudio.google.com/reporting/dc2bde3b-ce22-4814-a6d8-5efe3315dd2f

2. Jhpiego, India

Senior Data Officer/Monitoring and Evaluation (July 2021 to Nov. 2022)

I have taken charge of creating monthly district rankings for 14 states in the Health and Wellness Center (HWC) program, utilizing R scripts for data extraction, cleansing, and analysis. This involved supporting data extraction from multiple sources and providing dynamic support to states for data analysis and report generation. Additionally, I have spearheaded baseline and endline analyses, as well as developed Standard Operating Procedures (SSV, MQA, SOP) for telephonic surveillance and monitoring visits checklists for IHIP Implementation.

My expertise encompasses data management and visualization, including the creation of dashboards for surveillance data sourced from the IHIP portal, telephonic surveillance, and monitoring visits. I have automated district ranking reports for states using RScript and conducted various base and endline analyses to provide valuable insights. Furthermore, I have developed dashboards using Google Data Studio and DHIS2, along with implementing online data collection tools such as Google Forms, Epicollect, and Kobo Tool.

Skills: Proficient in Tableau, R, and Excel for data processing, validation, and visualization. Experienced in data quality improvement processes, data extraction, cleaning, and management. Skilled in utilizing Google Data Studio, Looker Studio, GIS, QGIS, DHIS2, Kobo Tool, and Google Forms for data visualization and online data collection.

My hands-on experience and skill set position me as a versatile data professional capable of effectively managing, analyzing, and visualizing complex data sets to drive informed decision-making in public health initiatives.

Looker Studio Project:

Surveillance Dashboard Findings Integrated Health Information Platform **(**IHIP**)**
https://datastudio.google.com/reporting/bbc18be6-d5db-4c87-b2b7-76c0e5850098/page/X7WpC
Telephonic Surveillance, Monitoring Visits &Surveillance Monitoring Visits
https://datastudio.google.com/reporting/7a9b3420-1651-4ceb-8f2c-b954b2628094/page/UnrhC
Preject(Ayushman Bharat-School Health & Wellness Programme)
https://datastudio.google.com/reporting/b38796f0-15c3-46e7-b7e3-6e8d4f8d32da/page/p_exohvbaemc
Preject(Ayushman Bharat Comprehensive Primary Healthcare (CPHC))
https://datastudio.google.com/reporting/2e727a79-bb9b-4bbf-92a4-8bf52b50a07d/page/p_sh7wjbg2pc
Data collection tool using Kobo and Google form:"Monitoring Checklist for Facility Monitoring"
https://ee.humanitarianresponse.info/x/FN7rMcFI
"**Telephonic Surveillance format (IHIP)"**
https://docs.google.com/forms/d/1M3Jknws1Ti2wbWLo_fov0n61WB1BhClbrbgo1Gxp9-w/edit
"Status of XVFC & PM ABHIM Rollout":

Different Regular Work Automation through R script: Arunachal_Dist_Ranking_Code.R

3. Insurance Regulatory and Development Authority of India -IIB, Hyderabad, India

Data Analyst (March 2017 to March2021)

Responsibilities: In addition to my extensive experience in managing data from government and private health insurance plans, I have led coordination efforts with all relevant parties. This entails working closely with the IT and technical teams of health insurers to guarantee smooth data uploading and validation procedures in addition to offering advice on best practices. In addition to bespoke reports, thematic reports, annual reports, and fact books, I also create a wide range of reports that are customized to each insurer's specific needs. In the insurance industry, these reports are essential for helping with pricing strategies, product creation, and strategic decision-making.

Furthermore, I have been actively involved in responding to legislative inquiries about health insurance and exchanging data with different government entities. In order to promote informed decision-making and optimize benefits, I have also created fraud detection tools and disseminated important information with insurance stakeholders.

Additionally, I have advanced health insurance programs by offering crucial support to several groups like the Health Insurance HUB and the IRDA-NHA joint working group.

In addition, I have expertise managing, keeping an eye on, and assessing health insurance applications, especially via websites such as ROHINI (Registry of Hospitals in the Network of Insurance). Through direct communication with hospitals, insurers, and third-party administrators (TPAs), I have played a key role in facilitating hospital registrations and identifying fraud at the hospital level.

Additionally, through platforms like https://hi.portability.iib.gov.in/, I have been instrumental in supporting health insurance portability programs by easing policyholder inquiries, validation rules, and problem resolution.

In addition, I have proven my ability to effectively manage both internal and external vendors for the development of dashboards and applications. In order to ensure efficient project execution and delivery, I have collaborated closely with senior officers on release planning, preparation, validation, post-release monitoring, and continuing project monitoring.

My project experience in the health sector includes leading initiatives such as:

ROHINI (Registry of Hospitals in Network of Insurance): A comprehensive registry of unique hospitals in the health insurers and TPAs network, aimed at providing vital information to insurers, medical service providers, customers, and regulators.
Health Insurance Portability: Facilitating policyholders to switch plans within the same insurer seamlessly.
Daily Health Data Submission Project: Real-time acquisition of data from insurers.
Hospital Rating Utility in ROHINI.
Claim Search Tool (Single claim search in Health Portability Portal).
Health Insurance Claims HUB.

4. ICAR- National Bureau Plant Genetic Resources (NBPGR), New Delhi

Designation: – Research Associate (RA) (Oct. 2016 to Feb. 2017)

Funding Agency: Department of Biotechnology **(DBT)**
Responsibilities:- NGS analysis of crop data using CLC Genomics and Galaxy tools including TopHat, Cufflinks and Cuffdiff. Developed website for INEW (Indo-UK Centre for Improvement of Nitrogen Use Efficiency in Wheat) Project. Contributed to the database (National Resource Plant Genomic Resources database) (http://www.nbpgr.ernet.in:8080/NGRR/Home.aspx)

5. ICAR-Indian Agricultural Research Institute (IARI), New Delhi

Designation: – Senior Research Fellow(SRF) (Jan. 2016 to Oct. 2016)

Responsibilities:- Developed website for Bioinformatics center (http://bic.iari.res.in/) using CMS (Content Management System), Google Studio, Drupal, Joomla XAMPP, server and Mysql database and data mining in bioinformatics and machine learning techniques.

6. CSIR-Institute of Genomics and Integrative Biology(IGIB)and AIIMS New Delhi

Senior Research Fellow **(SRF)(Oct. 2014 to Jan. 2016)**

Project:-"**Rapid real time blood pressure measurement and hypertension predisposition diagnostics using pulse transit time and blood pressure variability"**

Role:-Developed a model with high prediction accuracy Apply blood pressure data from CSIR-CEERI Chennai to an appropriate model that predicts an accurate result. Regression analysis on blood pressure data uses two response variables of blood pressure, like systolic blood pressure and diastolic blood pressure. Apply two modeling approaches and split the blood pressure data into two parts: training and test set, after which they validate the model using test set blood pressure data. And working on image processing, edge detection, cell counting using the processing tool ImageJ, and different Machine Learning techniques.

Technology:-R, Tableau, RStudio Tool, ImageJ
Description:- Working different algorithm and Big Data analysis techniques using R and RStudio

- ➔ Predictive modeling, Data Mining, Data Modeling, Data management
- ➔ Data Extraction, Data cleaning
- ➔ Machine Learning
- ➔ Hybrid Model

Data access for 62 countries and time series for India Household, Female and Male data of 62 countries were downloaded in SPSS-formatted tables [ref: http://dhsprogram.com/] The R programming language and software environment for statistical computing, versions 3.1.3 and 0.98.1103, were used for data cleaning, exploration, and mining. SPSS data were imported into R using the library foreign. Custom codes were written in R. Similarly, the data for Phases I, II, and III for India were downloaded and imported into R.

The latest DHS data on females was downloaded with permission from USAID (reference to website).DHS data on 90 developing countries was downloaded; 22 of these passed filtering criteria of >10,000 observations. A uniform random sample of 10,000 each from these countries (n = 220,000) was cleaned and harmonized using in-house pipelines written in the R programming language.

The program is responsible for collecting and disseminating accurate, nationally representative data on health and population in developing countries. Analysis of data from the Demographic Health Survey (DHS) of 22 countries. Also working on different timelines of India DHS data of 1992, 1998, and 2005 and India Human Development Survey (IHDS) time lines of 2005 and 2011.Sentiment analysis, text mining and Social Network analysis on Twitter data.

7. ICAR-Indian Agricultural Statistics Research Institute(IASRI), New Delhi

Designation – Junior Research Fellow**(JRF) (Apr. 2013 to Oct. 2014)**

Role:-Design and development of Web based portal for StatisticalSoftware.
Project:-

1. "Factorial Experiments with Minimum Level Change In Run Sequences"
2. "PolycrossDesign".

Link of Developed Software-

1. Web Generation of Factorial Experiments with Minimum Level Changes in Run Sequences(WebFMC) http://webfmc.iasri.res.in
2. Web generation of polycross designs (webPD) http://design.iasri.res.in/webpd

Academia:

- M.Tech in COMPUTER SCIENCE AND ENGINEERING in2012 from USICT, GGSIPU Delhi.
- Post-Graduate Diploma in Data Science in Health and Climate Change for Social Impact (Result Waited)
- from IIIT Delhi
- Microsoft Certified Professional (EXAM ID:70-461(Querying Microsoft SQL Server 2012/2014)
- Microsoft Certification ID: 14825065

Fellow Member:

1. Institution of Electronics and Telecommunication Engineers (IETE), New Delhi, India, Life time membership