

DR. DEEPANSHU GOEL

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EPIDEMIOLOGY & HEALTH DATA ANALYST | REAL-WORLD EVIDENCE | CLINICAL RESEARCH

PROFESSIONAL SUMMARY

Physician (MBBS, equivalent to a US MD) with an MPH in Epidemiology from Emory University and a certificate in data science. Experienced in statistical programming (R, SAS, Python), regression modeling, and epidemiologic study design, with a focus on chronic disease, diabetes, and real-world evidence. Skilled at translating complex clinical and public health data into actionable, decision-ready insights.

CORE COMPETENCIES

Epidemiology & Biostatistics • HEOR & Real-World Evidence (RWE) • Regression Modeling • Clinical Research & GCP • Public Health Data Analysis • R / SAS / Python Programming

EDUCATION

Rollins School of Public Health, Emory University — Atlanta, Georgia

Aug 2024 – May 2026

Master of Public Health, Epidemiology | GPA: 3.9 | Certificate in Data Science

Government Medical College, Amritsar — Amritsar, India

Oct 2016 – April 2023

Bachelor of Medicine, Bachelor of Surgery (MBBS) (equivalent to a US MD program)

TECHNICAL SKILLS

- Statistical Programming: R, SAS, Python
- Data Visualization: ggplot2, R Shiny dashboards
- Statistical Modeling: Logistic & linear regression, Poisson regression, survival analysis
- Data Handling: Data cleaning, transformation, descriptive analysis
- Tools: Excel, ArcGIS, GitHub, Docker

PROJECTS

WASH-Based Hygiene and Waterborne Disease Analysis | R, Logistic Regression

- Analyzed a cross-sectional dataset of ~1,000 Ethiopian households to identify socio-environmental determinants of diarrheal disease, generating evidence-based targets for regional health intervention prioritization
- Built high-quality analysis datasets from raw field data by implementing rigorous validation and recoding protocols
- Modeled disease prevalence using binary logistic regression, adjusting for demographic covariates (age, sex, educational status) to estimate the odds ratio (OR) of hygiene practices on health outcomes

Interactive Dashboard Development | R Shiny

dee-2197.github.io/DATA_555_dashboard

- Architected a web-based interactive dashboard in R Shiny to visualize capstone data, enabling stakeholders to track health trends across multiple variables
- Performed data preprocessing and transformation using the tidyverse
- Built reactive elements and custom user filters for real-time, dynamic exploration of regional health indicators
- Translated epidemiologic findings into actionable insights through ggplot2 visualizations and KPIs

RESEARCH EXPERIENCE

Public Health Intern

May 2025 – Aug 2025

Emory Global Diabetes Research Centre, Woodruff Health Sciences, Emory University | Supervisor: Dr. Shivani A. Patel, PhD

- Conducted a systematic literature review of 50+ peer-reviewed articles, identifying key gaps in diabetes health disparities research that informed new study hypotheses
- Co-authored research protocols and developed validated questionnaire instruments to ensure high-quality data collection
- Managed large datasets in SAS — including data merging, variable recoding, and outlier detection — to prepare data for analysis

- Performed descriptive and bivariate statistical analyses, synthesizing findings into reports that shaped the direction of ongoing research projects

Capstone Project — CARE (NGO)

Apr 2026

Emory University Rollins School of Public Health | Atlanta, Georgia

- Applied epidemiologic methods to evaluate the association between WASH-based hygiene practices and diarrhea prevalence
- Communicated population health trends to academic stakeholders through interactive data visualization

Lead Research Investigator, MBBS Project

2021 – 2024

Government Medical College, Amritsar, India | Supervisor: Dr. Manmeet Kaur Sodhi, MBBS MD (Pediatrics), Head of Pediatrics

Quality of life in adolescents (10–20 years) with Type 1 Diabetes Mellitus and impact on their families

- Coordinated multi-site data collection for a public health survey, ensuring strict adherence to standardized sampling protocols and ethical guidelines

PUBLICATIONS

Singh K, Jain NP, Chhabra S, Jain P, Goel D. (2023). Prevalence of Musculoskeletal Manifestations in Type 2 Diabetes: A Single Centre Cross-Sectional Study. Clinical Diabetology, Via Medica Journals.

Kumar A, Sharma A, Sharma A, Goyal D, Goel D. (2022). The Role of Android Robot's Skill as a Teacher in Anatomical Sciences Education: A New Concept. Indian Journal of Clinical Anatomy and Physiology.

CLINICAL & FIELD EXPERIENCE

Pre-Graduate Clinical Internship

Apr 2021 – Apr 2023

Government Medical College and Hospital, Amritsar, India

- Completed clinical rotations across Internal Medicine, General Surgery, Pediatrics, and OB/GYN; managed full-spectrum patient care including history taking, physical examination, and case presentation
- Served as a frontline healthcare provider during the COVID-19 pandemic (Mar–Oct 2021), delivering critical care and triaging high-acuity patients in a high-volume clinical environment

Elective in Internal Medicine

Jan 2023

LaSante Health Centre, New York

- Conducted patient evaluations and managed EMR documentation, gaining proficiency in U.S. healthcare delivery systems and clinical data interpretation

Observership in Radiology

Sep 2023 – Oct 2023

Under Dr. Sudha Mirchia, MD (Radiology), India

- Reviewed ~100 cases across MRI, CT, and mammography to build clinical imaging acumen

TRAINING & CERTIFICATIONS

- Data Science Certificate | Emory University Rollins School of Public Health
- CITI Human Subjects Research; CITI Social/Behavioral Research
- Punjab Medical Council License — licensed to practice as a physician in India (MBBS equivalent to US MD)
- Workshop on R | Emory University Rollins School of Public Health, Apr 2025
- Workshop on Nutrition Research | CNRTI, ICM, Nov 2022
- Basic Life Support Course | Indian Academy of Pediatrics, GMC Amritsar, Aug 2021

COMMUNITY SERVICE

- Elizabeth Foundation, Atlanta, GA — Food distribution support
- Atlanta Community Food Bank, Atlanta, GA — Warehouse operations
- Chattanooga Food Bank, Chattanooga, TN — Community kitchen, warehouse, and food preparation