

Kritika Singh

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Internship

Intern

June 2024 - July 2024

CSIR-IITR (Indian Institute of Toxicology Research)

- Acquired hands-on experience with advanced laboratory techniques, including DARTS assays, cell culturing, and protein extraction and estimation.
- Gained practical knowledge of intricate procedures such as rat perfusion.
- Developed expertise in sophisticated analytical methods, such as high-performance liquid chromatography (HPLC), for accurate compound separation and quantification.

Projects

Water Potability analysis:

March 2024 - April 2024

- Conducted a comprehensive water potability analysis, utilizing the **Confusion Matrix** and **Classification Report** for performance evaluation.
- Assessed the model's predictive accuracy and reliability in identifying potable water sources.
- Leveraged **Python** to enhance efficiency and maintain analytical rigor.

Diabetes prediction using ML:

April 2024 - May 2024

- Diagnosed the likelihood of diabetes in patients based on selected diagnostic measurements.
- Curated a high-quality dataset by applying stringent constraints to a larger database.
- Deployed **logistic regression** and **support vector machines** for predictive modeling.
- Achieved reliable predictions and gained **data-backed insights** into key diagnostic patterns.
- Utilized **MATLAB** to streamline computations and enhance analytical precision.

Certificates

Get Job Ready: Power BI Data Analytics for All Levels 3.0

January 2025

Code Basics

Six Sigma Tools for Improve and Control by Kennesaw State University

July 2024

Coursera

Digital Marketing

August 2024

TechEra

SQL for Data Science

September 2024

Coursera

Elementary Data Structures

April 2023

Saylor Academy

Python Fundamentals

July 2022

Great Learning Academy

Technical Skills

Languages C++, **Python**, **MATLAB**, Java, C

Tools/Platforms: MySQL, **Power BI**

Skills: Data Analysis and Interpretation, **System Analysis**, **Problem-Solving**, **Critical Thinking**, **Negotiation and Persuasion**, Project Management

Education

Lovely Professional University Punjab

2022 – 2026

BTech Biotechnology — CGPA: 8.73

Jalandhar, Punjab

City Montessori School

2021– 2022

12th with Science — Percentage: 93.25%

Gomti Nagar, Uttar Pradesh

City Montessori School

2020– 2021

10th with Science — Percentage: 91.4%

Gomti Nagar, Uttar Pradesh