

# KRITIKA VERMA

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## OBJECTIVE

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2nd Year, Bachelor of Technology (IT and Mathematical Innovation Centre), seeking an internship.

## EDUCATION

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**Bachelor of Technology, Cluster Innovation Centre (University of Delhi), New Delhi** Expected 2025

1st Year: 8.92 CGPA

Relevant Coursework: Calculus, Linear Algebra, Ordinary Differential Equations, Data Structure and Design, Computer System Architecture, Object Oriented Programming, Partial Differential Equations, Database Management System, Design and Analysis of Algorithms, Integrative Biology, Cell: Biochemical and Molecular perspective, Physics and Discrete Mathematics.

**Senior Secondary (12th), St. Gregorios Senior Secondary School, Udaipur (Raj)** 2021

Percentage: 95.60

**Matriculation, St. Gregorios Senior Secondary School, Udaipur (Raj)** 2019

Percentage: 90.80

## SKILLS

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**Technical Skills** Mathematica, MATLAB, ArcGIS, AutoDock Vena,  $\LaTeX$ , Google Collab, MongoDB, and AutoDock Vena.

**Languages** Python, MySQL, C, Java, CSS, R, and HTML

**MS Office** Word, Excel, Powerpoint, Outlook, Access, OneNote

## EXPERIENCE

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**Intern** June 2022 - Nov 2022

Beyond Exams *New Delhi, India*

- Using machine learning to classify YouTube videos into educational and non-educational.
- Further, sub categorizing the educational videos into different streams like music, business, coding, etc.,

## PROJECTS

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**Population Modelling Of Tibetan Antelope By Ordinary Differential Equation .** Predicting the population of Tibetan Antelope Using the already given data using population model with help of Mathematica.

**Numerical Analysis of Boundary Value Problem Using the Shooting Method.** Numerical analysis of boundary value problems for Linear and Non-Linear ODEs using the shooting method, with the help of the Euler's Method as well as the Runge-Kutta second derivative method are used to solve the problem and later compared on the basis of their efficiency.

**Project Report on Fractals.** Information about various fractals and plotting them using Python, C, and Mathematica.

**Animations Using Position Vectors in MATLAB.** Animation of different equations in 3D using MATLAB by rendering the equation frame by frame by advancing it with time.

**Analyzing Constellations using Graph Theory.** Using Python to find the nature of the constellation considering them to be a graph whether that graph is Eulerian and Hamiltonian or not.

**Analyzing change in land-use/land-cover of Wayanad and Nilgiri.** Using ArcGIS to examine the change in land cover and land use or the years from 2015 to 2022 in the regions of Wayanad and Nilgiri.