

KIRTI NEGI

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OBJECTIVE

I am a dedicated science graduate in Physics pursuing my masters, with a strong foundation in research, analytical thinking and problem solving. I am an enthusiastic and detail-oriented individual seeking an opportunity to leverage my skills in a dynamic role whether in academics, research or a non-tech industry setting. I have gained experience in tutoring and want to develop my practical skills in a corporate environment through new work experience. Eager to improve my knowledge while gaining hands on experience and gaining industry expertise.

EDUCATION

MASTER'S INTEGRATED PHYSICS

Doon University • Dehradun • 2025 • 82.1 %

B.Sc. HONORS PHYSICS

Minor in Mathematics • Doon University • Dehradun • 2023 • 65.4%

CLASS 12

DAV Public School • Dehradun • 2020 • 80%

Class 10

DAV Public School • Dehradun • 2018 • 87.6%

PROJECTS

Master's Dissertation

- Performed a systematic review of peer-reviewed articles using multiple databases focusing on optical fiber sensor technologies in medicine.
- Synthesized findings to evaluate the efficacy and innovation in sensor applications for patient monitoring by conducting an extensive literature review on the integration of optical fiber sensors in biomedical applications.
- Analyzed advancements in sensor technologies for diagnostics and therapeutic monitoring.
- Used R and VOSviewer to analyze and visualize biomedical research trends and identified future directions in optical fiber sensor applications for medical diagnostics.

Simulation of Planetary Motion in a Binary star system using computational methods.

- Stimulated the motion of a three-body system consisting of two stars and a planet with varying initial conditions to determine stable orbital paths.
- Applied the Runge-Kutta numerical method for solving differential equations governing the system dynamics.
- Developed and executed simulations using FORTRAN programming to analyze orbital stability and interactions.

SKILLS

- Microsoft office (word, excel, Power Point)
- Advance Excel
- Basics of Power BI
- MIS Report Preparation
- Fortan
- GNU Plot
- Strong analytical and Problem-solving skills
- Teamwork and Leadership

CERTIFICATIONS

Advanced Excel

- **Enhanced data analysis skills** for handling large datasets efficiently using formulas, pivot tables, and advanced functions.
- **Mastered automation** through macros and VBA, improving workflow and reducing manual tasks.
- **Improved visualization techniques** using advanced charts and dashboards for clearer data interpretation.

MENTORSHIP ROLES

Physics Faculty

HCP | August 2023 - February 2024, | Dehradun

- Taught Physics simplifying complex concepts for better comprehension, designed and conducted assessments to track student progress.
- Collaborated with fellow tutors to design and execute comprehensive test preparation programs, resulting in improved student performance in board examinations.

