RAJ KUMAR NEUPANE

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EDUCATION

Tribhuvan University, Central Department of Physics – Kathmandu, Nepal
Master of Science in Physics (Mathematical & Computational Focus)
Feb 2023 – Sep 2025
Coursework: Statistical Mechanics, Mathematical Physics, Computational Methods, Numerical Methods, Advanced Differential Equations

Tribhuvan University – Kathmandu, Nepal
Bachelor of Science in Physics (with Statistics & Mathematics)
Jan 2015 – Jul 2020
Statistics: Probability Theory, Statistical Methods, Applied Statistics, Regression Analysis, Sampling Techniques, Design of Experiments
Mathematics: Calculus I & II, Linear Algebra, Differential Equations, Vector Analysis

RESEARCH EXPERIENCE

Research Center for Applied Science and Technology (RECAST), TU – Kathmandu, Nepal
Research Intern | October 2025 – Mar 2026

- Conducted experimental research involving data collection, regression analysis, and interpretation of scientific data
- Applied statistical techniques to validate experimental results and support research findings

Central Department of Physics, TU – Kathmandu, Nepal
MSc Researcher | Mar 2023 – Sep 2025

- Performed statistical analysis, error analysis, and numerical modelling of simulation data
- Applied regression, curve fitting, and computational methods to evaluate results
- Presented research findings using clear data visualization and analytical reasoning

SKILLS

Statistics & Data Analysis: Probability Theory, Descriptive & Inferential Statistics, Regression Analysis, Hypothesis Testing, Sampling Methods, Data Visualization, Error Analysis
Mathematics: Calculus, Linear Algebra, Differential Equations, Mathematical Modelling, Numerical Methods
Programming & Tools: Python (NumPy, Pandas, Matplotlib), MATLAB, Microsoft Excel (advanced data analysis)
Teaching & Communication: Lesson Planning, Grading, Student Mentoring, Ability to explain quantitative concepts clearly, Academic presentation and student engagement

ADDITIONAL INFORMATION

Languages: Nepali (Native), English (Proficient)
Interests: Applied Statistics, Data Analysis, Education, Agricultural & Economic Data Systems