Ankit

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Education

National Institute of Technology, Rourkela   2025 – Present
M.Sc. in Computational Mathematics and Data Science (certificate)   CGPA: 7.95

Sh. Rameshwar Lal Sharma Teacher Training College, Pilani   2021 – 2025
B.Sc. – B.Ed (certificate)   CGPA: 7.23

Relevant Coursework

Probability and Statistics, Linear Algebra, Optimization, Numerical Analysis, Differential Equations, Discrete Mathematics, Finite Automata, Calculus of several variable, Complex Analysis.

Experience

Numerical Analysis Laboratory 🐙   2025
Python
- Implemented algorithms for nonlinear equations, linear systems, and ODE models
- Performed convergence and error analysis for numerical stability
- Benchmarked efficiency of iterative computational methods

Statistics Laboratory 🐙   2026
C++
- Built statistical computation programs from scratch (no STL)
- Implemented simulation models for probability distributions
- Computed descriptive and inferential statistics efficiently

Projects

Heatwave Prediction in Rajasthan for Summer 2026 🐙
Python, Scikit-learn
- Conducted EDA on multi-year meteorological datasets
- Engineered heat index features (temperature-humidity interaction)
- Applied ML models to predict heatwave occurrence

End-to-End ML Pipeline (Titanic Survival) 🐙
Python, Scikit-learn
- Developed modular ML pipeline with preprocessing and classification
- Handled missing values and categorical encoding
- Built reproducible, pipeline-based workflow

Technical Skills

Programming: Python, C++
Database: MySQL
Machine Learning: Linear Regression, Logistic Regression, Decision Trees
Deep Learning: TensorFlow, Keras
Data Analysis: EDA, Statistical Modeling, Data Pipelines
Tools: Git, GitHub

Certification

Python Essentials – Cisco (2025) (certificate)