



Lomisa lakshman kumar
Metallurgical Engineering and Materials Science
Indian Institute of Technology Bombay

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B.Tech.
Gender: Male
DOB: 13/04/2004

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2025	7.22

KEY PROJECTS

- **Wet and Dry Snow Detection Using Sentinel-1 SAR Data with ML Approach**
Guide: Prof. Gulab Singh | Course Project, spring 2023 IIT Bombay
 - Collected and processed the snow cover data over the Himalayan terrain from Landsat-8 and Sentinel-1 for creating a model.
 - Trained the snow cover data using a **RandomForestClassifier** to classify Wet, Dry, and No Snow regions.
 - Softwares/Technologies used: SNAP, ArcGIS/QGIS, GEE, Python.
- **Tic Tac Toe Game using HTML, CSS, and JavaScript | Self-Project**
 - Developed a fully functional Tic Tac Toe game using HTML, CSS, and JavaScript, showcasing proficiency in **front-end web development**.
 - Implemented an interactive gameplay interface that allows players to take turns placing their symbols ("X" or "O") on the grid, checks for a win or a draw after each move, and provides a reset button to start the game over.

TECHNICAL PROJECTS AND COURSES

- **Cricbuzz | Summer of Code-2k23 | Web and Coding Club, IIT Bombay** | May'23-present
 - Developed an interactive cricket website using **Node.js, Express.js, PostgreSQL, and Chart.js**.
 - Implemented APIs using Node.js and Express.js for **data retrieval, updates, and backend server**.
 - Ensured efficient storage using PostgreSQL and created a **dynamic** and interactive user interface for displaying cricket match data and player performance statistics using React.js and Chart.js.
- **Data Structures and Algorithms | Learners' Space, UGAC** | July 2023-present
 - Proficient in data structures and algorithms, complexity analysis, **searching, sorting, backtracking, recursion**, binary trees, and hash tables.
 - Completed multiple tests and challenges under the Learners' Space on **HackerRank** coding platform.
- **Data Science | Summer of Science-2k23 | Maths and Physics Club, IITB** | May'23-present
 - Proficient in Python, Pandas, and NumPy for data manipulation in data science projects.
 - Proficient in **Matplotlib and Seaborn** for data visualization in data science.
 - Familiar with **supervised (linear, logistic regression) and unsupervised learning** in ML.

POSITION OF RESPONSIBILITY

- **Coordinator | Corporate Relations | Entrepreneurship Cell, IIT Bombay (Jul'22 - Jan'23)**
 - Successfully handled over 10+ national and international professionals coming to IITB for E-Cell events.
 - Contacted various female influencers for the social initiative AANYA - a drive for PCOS awareness.

TECHNICAL SKILLS

- **Languages and Software:** HTML, CSS, JS, R, Python, C++, **Matlab**, Node.js, React.js

COURSES UNDERTAKEN

Mathematics and Numerical: Numerical Analysis, Calculus, Linear Algebra, Differential Equations
Miscellaneous Courses: Computer Programming and Utilization, **Remote Sensing** and GIS Applications to Cryosphere, Economics

EXTRACURRICULAR ACTIVITIES

- Successfully completed a two-semester long course in Educational Outreach under the NSS.
- **SCHOLASTIC ACHIEVEMENTS:**
 - Secured an impressive 97.5 percentage (975/1000) in higher secondary education.
 - Secured 94.8 percentile in JEE Mains 2021 among 1.2 million candidates.