

EDUCATION			
YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	% / CGPA
2025 - Present	M.Tech Department of Management Sciences	Indian Institute of Technology, Kanpur	*Ongoing
2021 - 2023	M.Tech Mechanical Engineering	Indian Institute of Technology, Kanpur	6.62
2016 - 2020	B.Tech Mechanical Engineering	MJP Rohilkhand University, Bareilly	6.92
2015	Higher Secondary Education CBSE Board	NE Railways Senior Secondary School	62.80
2013	Secondary Education CBSE Board	Ratna Memorial Public School	8.4

SELF PROJECTS	
Binary Image Classification GitHub Live Demo	
Objective	To build a deep learning model for classifying images of cats and dogs with high accuracy.
Approach	- Designed and trained a Convolutional Neural Network (CNN) using TensorFlow and Keras - Extracted Histogram of Oriented Gradients (HOG) features and implemented KNN, SVM, and Logistic Regression for classical ML comparison - Deployed final CNN model as a web application using Streamlit for real-time user interaction
Result	Achieved 95% classification accuracy ; deployed an interactive tool for instant image prediction.
Wine Quality Prediction GitHub	
Objective	To predict wine quality based on physicochemical properties using machine learning algorithms.
Approach	- Trained multiple ML models including Decision Tree, KNN, SVM, Logistic Regression, and Random Forest - Evaluated models using metrics such as accuracy, precision, recall, and F1-score - Conducted feature importance analysis to understand key attributes influencing wine quality
Result	Achieved 87.9% accuracy using the Random Forest classifier — highest among all tested models.
Interactive Dashboards using Power BI GitHub	
Objective	To build dynamic dashboards for diverse domains to support business intelligence and storytelling.
Approach	- Created dashboards for COVID-19 trends, IPL 2022 performance, retail sales, and road accident patterns - Used Power Query for data transformation and DAX for calculated metrics and KPIs - Incorporated slicers, cards, and cross-filter visuals for interactive analysis
Result	Delivered multiple interactive dashboards enabling real-time insights across public health, sports, and retail datasets.

COURSEWORK AND SKILLS	
Relevant Courses*	Probability & Statistics Operations Research for Management Introduction to Computing (Python) Data Mining and Knowledge discovery
Technical Skills	SQL* Python* Data Analysis Machine Learning* Power BI
Others	MS-Office AutoCAD MATLAB COMSOL LaTeX

CERTIFICATIONS	
Intro to SQL	Intro to Machine Learning
Intermediate Machine Learning	Intro to Deep Learning
Computer Vision (CNN)	Python for Data Science and M L Bootcamp
Power BI	

POSITIONS OF RESPONSIBILITY	
Teaching Assistant, Advanced Mechanics of Solids, UG course, IIT Kanpur - Supervised shear modulus lab using strain gauges; evaluated weekly reports of 14 students. - Conducted lab experiments using a full Wheatstone bridge configuration to determine shear modulus and ensured the accuracy and thoroughness of student-submitted data. Teaching Assistant, HAL course, IIT Kanpur - Trained HAL trainees on UTM operation and tensile testing.	

*Present / Under Progress