

EDUCATION

Degree/Certificate	Institute	CPI/%	Year
M. Tech (Department of Management Sciences)	Indian Institute of Technology, Kanpur	-	2025 -2027*
B. Tech (Textile Technology)	Uttar Pradesh Textile Technology Institute, Kanpur	8.44	2020-2024
Higher Secondary Education	Harmilap Mission School, Kanpur	83.2 %	2020
Secondary Education	Harmilap Mission School, Kanpur	82.4 %	2018

WORK EXPERIENCE (1 Years)

- Worked as Shift Manager in Operations Department in Trident Limited, MP. (August'24 -April'25)
- Worked in a project "To increase the productivity of 32CHC ring frame machine" in Trident, Punjab. (June'23 - August'23)

KEY PROJECTS

Health Insurance Medical Cost Prediction | Linear Regression | (Self Project) [Link](#)

- To estimates health insurance medical costs based on an individual's personal attributes (total 7) and health-related information.
- The project methodology consists of four key phases: **Exploratory Data Analysis**, **Data Pre-processing**, Model Building and Model Validation.
- The relationship between features is explored using statistical plots like a **correlation heatmap** to identify potential dependencies.
- A **Linear Regression** model is trained and its performance is evaluated using metrics like R-squared.
- Result:** Mean Square Error (MSE) = **0.1873**, R square value: **0.77957**.

Bank Customer Churn Prediction | Classification | (Self Project) [Link](#)

- To develop a predictive model that identifies which bank customers are likely to churn.
- The project utilized **Python**, along with libraries like **Pandas**, **Matplotlib**, and **Seaborn**, to conduct initial data preparation and comprehensive exploratory data analysis (**EDA**).
- Built using various algorithms, including **Random Forest** and **Decision Tree classifiers**, to determine the likelihood of customer churn.
- Refined through a process of hyperparameter tuning and **cross-validation** to ensure optimal accuracy and reliability.
- Achieved an **accuracy** [0.868] | **precision** [0.82] | using **Random Forest Classifier** with **Hyperparameter tuning**.

COURSEWORK AND SKILLS

Relevant Courses*	Probability & Statistics Data Mining Analytics Introduction to Computing Operations Research for Management
Online Courses	Excel Automation using ChatGPT by Simplilearn. Data Analysis with Python by IBM Cognitive Class* Data Visualisation with Python by IBM Cognitive Class*
Skills	Python ML Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, Seaborn EXCEL SQL* Power BI*
Soft Skills	Team Management Leadership Decision Making Communication Skills Adaptability Teamwork

ACHIEVEMENTS AND POR

- Secured **AIR 21** in GATE 2024 (TF) during the final year of B. Tech conducted by IISc Bangalore.
- Secured AIR 109 in GATE 2023 (TF) during the 3rd year of B. Tech conducted by IIT Kanpur.
- Organized several Fest and Event in my Bachelor's College as holding the position of **Anchoring Head** of College Cultural Society.
- Won **1st prize** in HUM BHI HAI 4.0 competition held by Unmulan NGO, Kanpur, **outperforming 120 participants**.

*Present / Under Progress