GAURAV KETAN SONI

MTech | Department of Management Science | IIT Kanpur

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EDUCATION DETAILS

YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	CGPA / %
2023*	M. Tech.| Department of Management Science	Indian Institute of Technology Kanpur	-
2022	B.Tech. |Mechanical Engineering	IITRAM, Ahmedabad	8.31
2018	Higher Secondary Education	GSEB	Shyam Academy, Mandvi	82.33 %
2016	Secondary Education	GSEB	Shyam Academy, Mandvi	89

SELF PROJECTS

Health Insurance Medical Cost Prediction:

- There are 1338 unique customer records and 7 different attributes.
- Methodology involves sequential phases: **Exploratory Data Analysis, Data Preprocessing**, Model Building, Model Validation.
- The model was trained utilizing the training data, employing **Linear Regression**.
- Result: Mean Square Error (MSE) = 0.1873 , R square value : 0.77957.
- *Link: -* https://github.com/gauravsoni05/Health-Insurance-Medical-Cost-Prediction

Loan Approval Prediction using Various ML Models:

- Training data contains 614 instances with 12 features and test data contains 367 instances with 11 features.
- Steps include Data preprocessing, Exploratory data analysis, Feature engineering, Model building.
- Handled class imbalance problem by upsampling positive classes using SMOTE, Creating duplicates.
- Employed Decision Tree, KNN, Random Forest, Gradient Boots, SVM, Gaussian NB, Categorical NB, Logistic Regression models.
- Result: - maximum Accuracy = 88.89 (Decision Tree, K Neighbors, Random Forest).
- *Link: https://github.com/gauravsoni05/Loan-Approval-Prediction*

COURSEWORK AND SKILLS

Relevant Courses (Ongoing)	**Statistical Modeling for Business Analysis**	**Probability & Statistics**	Operations Research for Management	**Introduction to Computing**	
Certified Online Courses	- Machine Learning from Basic to Advanced – Udemy - Python NumPy Data Analysis for Data Scientist – Udemy - The Pandas Bootcamp – Udemy - Microsoft Excel – Udemy
Technical Skills	Python*	Machine Learning*	MS Excel	MS PowerPoint	Java*	SolidWorks

ACHIEVEMENTS

- Secured **AIR 298** in GATE 2023 Examination in **Engineering Science** conducted by IIT Kanpur.
- Secured **AIR 754** in GATE 2023 Examination in **Mechanical Engineering** conducted by IIT Kanpur.
- Received a scholarship for exceptional academic performance in B.Tech. at IITRAM, Ahmedabad.

POSITION OF RESPONSIBILITIES & EXTRA CURRICULAR

- I contribute to IIT Kanpur's Department of Management Science as a vital member of the Media and Culture Team. My responsibilities encompass student activities, event management, and maintaining the department's website.   (ongoing**)

🔗 **LinkedIn Profile Link-** Gaurav Soni
🔗 **GitHub Profile Link-** gauravsoni05