KANCHAN MAAN

M.Sc. Statistics
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KanchanMaan Kanchan

ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI/%
2022-25	M.Sc. Statistics	IIT Kanpur	5.5
2020	B.Sc.	I.C.G., I.I.S.U., Jaipur	71.06%
2017	CLASS XII(CBSE)	S.B.N.P.S., Jaipur	73.4%
2015	CLASS X (CBSE)	T.P.S., Jaipur	7.8

SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank **181** in **IIT JAM** 2022 among 2912 candidates nationwide.
- Received **Academic Award** for standing **2nd** in the class of German Language Course in B.Sc.

PROJECTS

- **Securing Finances: A Project on Credit Card Fraud Detection and Mitigation** | *Self Project* | *June 24-July' 24*
  - Performed EDA, Preprocessing, and Feature Creation by Weight of Evidence.
  - Used **Feature Importance Score** by Random Forest, LightGBM, and XGBoost for feature selection.
  - Model on **Logistic Regression, LightGBM, XGBoost, and CatBoost**, calculate precision, recall, and F1 score for accuracy check, and use **AUC** for final model selection.
  - Chose LightGBM and used y pred probability to **prevent fraud by 30.50%.**
- **Stock Market Analysis and Forecasting** | *MTH 442 Course Project* | *Aug'23-Nov'23*
  - Conducted trend estimation employing the **Augmented Dicky Fuller Test (ADF)**. Executed a thorough analysis involving the estimation and meticulous **removal of seasonality**, enhancing the accuracy of our time series model.
  - Selected the optimal model using **autocorrelation function(acf)** and **partial autocorrelation function(pacf)** graphs.
  - Utilized **Maximum Likelihood Estimator (MLE)** for parameter estimation, elevating the model's precision.
  - Used the model to **predict future stock values**, offering a reliable tool for anticipating market movements.
- **House Price Prediction** | *Self Project* | *June'23- July'23*
  - Used programming tools such as **Pandas** and **NumPy**.
  - Model that can predict house prices based on your requirements (rooms, area, etc.) using **Gradient Descent** and **Stochastic Gradient Descent Optimizer.**
- **Analysis of Road Accidents in India** | *MTH 208A Course Project* | *Aug'22-Nov'22*
  - **Analyze** the relationship of road accidents in India with vehicular density, time, weather, and alcohol prohibition.
  - Utilized web-scraping for data collection, employed **ggplots** and **RShiny** apps for data visualization and analysis.
  - Provided **insights** into the effectiveness of alcohol prohibition on road accidents, the relationship between motor vehicle density and road accidents in major cities, and the effect of time & weather conditions on accident rates.

POSITION OF RESPONSIBILITIES

- **Marketing Executive** | *KP & Company* | *May'22-July'22*
  - Conducting market research and gathering data for insights and analysis.
  - Identifying and pursuing new business opportunities.
  - Building and maintaining relationships with potential clients and collaborators.
  - Collaborating with managers to prepare budgets and monitor expenses in promoting programs and services.
- **Associate** | *NPV & Co* | *Sept'20-Oct'21*
  - Compiling and reviewing financial information.
  - Preparing financial forms, documents, and reports.
  - Assisting with the preparation of clients' budgets and financial statements.
  - Utilize accounting software and tools to facilitate financial analysis and reporting.

RELEVANT COURSES

Time Series Analysis	Linear Regression and ANOVA	Statistical & AI Techniques in Data Mining
Data Science Lab	Multivariate Analysis	Introduction to Probability Theory
Sampling Distributions	Statistical Inference	Descriptive Statistics

TECHNICAL SKILLS

- **Programming Languages:** R, Python
- **Databases:** MYSQL
- **Relevant Software:** Jupyter Notebook, Power Bi, Tableau, MS Excel, MS PowerPoint