

PAYANTA HAWLADAR

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EDUCATION

Indian Institute of Technology, Kanpur <i>Master of Science in Statistics, CPI: 6.3</i>	Kanpur, India 2021
Presidency University, Kolkata <i>Bachelor of Science in Statistics, CGPA: 6.1</i>	Kolkata, India 2018
Labanhrad Vidyapith, Saltlake <i>Higher Secondary (WBCHSE), Percentage: 84.6</i>	kolkata, India 2015

SCHOLASTIC ACHIEVEMENTS

Recipient of INSPIRE-SHE Scholarship by DST, Govt of India for being among the top 1% candidates in HS exam.

RELEVANT COURSEWORK

- Regression Analysis
- Multivariate Analysis
- Statistical Simulation and Data Analysis
- Statistical AI Techniques in Data Mining
- Statistical Inference
- Time Series Analysis
- Applied Stochastic Process
- Analysis of Variance
- Computer Programming and Data Structures
- Advanced Statistical methods for Business Analytics
- An Introduction to Bayesian Analysis
- Bayesian Inference

ACADEMIC PROJECTS

- What determines wage? A Regression Case Study** | *RStudio* *Mentored by Prof. Sharmishtha Mitra*
- Performed exploratory analysis on a dataset containing information about daily wages and other demographics of a group of people to understand the interactions among predictors, which helped in creating new and more meaningful features.
 - Built a linear regression model of daily wage on the given and derived set of features by employing suitable variable selection methods, after removing outliers present in the data and severe multicollinearity present among the predictors.
- Course Project for Time Series Analysis** | *RStudio* *Mentored by Prof. Amit Mitra*
- Suitably decomposed the time series into trend and seasonal components to remove the non-stationarity present in data.
 - Modelled the stationary part of the time series using ARIMA methodologies by suitably choosing the parameters.
- Course Project for Data Mining** | *RStudio* *Mentored by Prof. Amit Mitra*
- Performed Principal Component Analysis for dimension reduction, Cluster Analysis (Complete linkage, Single linkage, Average linkage, K-Means clustering etc.) and Discriminant Analysis and Classification technique on a trained data set containing the different features of many Cars which were manufactured under three different countries.
 - Prediction is about how one can classify any new observation from test set to any one of those three groups or classes.
- Business Analytics Project** | *Python, Jupyter Lab* *Mentored by Prof. Shankar Prawesh*
- Applied some well-known classification technique like Logistic Regression, K-NN, LDA, SVM etc. on training data set and fit the final model for each learning algorithm and choose our best performing model with highest accuracy.
 - Got LDA as our best model with 84.2% accuracy on test set and plot ROC Curve for it with 0.88 AUC.
- Course Project for Multivariate Analysis** | *RStudio, Markdown* *Mentored by Prof. Subhajit Dutta*
- Applied some basic Descriptive Multivariate techniques like Scatter plot, Histogram, Density plot, PCA, Clustering(Hierarchical, Non-Hierarchical), Discriminant Analysis(LDA, QDA), Multiple Logistic Regression, Testing of Hypothesis, Multivariate Normality test, outlier detection using Mahalanobis distance etc. for visualizing some characteristic of the data and interpreting the multivariate result.

ONLINE CERTIFICATION

- House Price Prediction using Linear Regression in Python.
- Neural Network and Deep Learning.
- SQL for Data Science

TECHNICAL SKILLS

Languages: Python, R, C, HTML, SQL.

Developer Tools: VS Code, RStudio, Jupyter Lab/Notebook, Markdown.

Packages/Libraries: Numpy, Pandas, Matplotlib, Seaborn, Scipy, Scikit-Learn, Plotly.

Software: RStudio, Microsoft Office, Minitab.