Laxman Singh

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EDUCATION

Indian Institute of Technology (BHU)   July 2018 - July 2022
B.Tech (Chemical Engineering)   *Varanasi , India*

SKILLS

Programming: Python (Pandas, Matplotlib, Scikit-learn), SQL, Excel VBA (Basics)
Tools & Technologies: Tableau, MS-Excel, Google Sheets, MS-Office
Areas of Interest: Business Analytics, Data Visualisation, Event Management

EXPERIENCE

Data Science Intern, CRIS(Centre for Railway Information Systems)   July 2021 - August 2021
An Organisation of the Ministry of Railways, Govt. of India

- Worked on **Forecasting** the Traction Energy for 15 min intervals, supplied from a Traction Sub-Station.
- Proposed a model to find suitable features for determining energy consumed by trains. Thus, prepared a new Dataset with 28 Calculated Features for every 15 min interval over 6 months.
- **Preprocessed** the resulting Dataset. Deployed various **Machine Learning algorithms** for **predicting** Traction Energy and achieved an accuracy of **85.14%** on test data.

PROJECTS

Analysing Automobile Market - Car Price Prediction

- Analysed **CarDekho car pricing data-set** having 301 records and 9 features, Used various machine learning models for predicting the theoretical price of a used car and later compared the performance of all the models.
- Employed **data pre-processing techniques** and Optimised the accuracy of the algorithms by fine-tuning the hyperparameters using grid search and random search; Achieved an **R-squared value of 0.88**.

Business Statistics and Analysis Capstone Project

- **Merged and cleaned** the data of the American Housing Survey for the years 2007, 2009, 2011, and 2013. Implemented **Hypothesis Testing** to compare the market values of vacant and occupied houses
- Build a **Predictive Model** for the market value of housing units using **Linear Regression** in MS-Excel. Carried out **Holdout Analysis** to measure the accuracy of the model developed.

Examining the Sales of a Computer Hardware firm

- Gained insights into a **sharp decline of sales**(2016-2020); Recognised potential reasons and suggested appropriate measures to overcome possible deficits.
- Used **SQL** for data extraction and exploration; Performed **ETL(Extract, Transform, Load)** for data cleaning and transforming the data; Evaluated the demographics and product diversity.
- Built an **interactive dashboard** for data visualisation and strategy development using **Tableau**.

POSITIONS OF RESPONSIBILITY

Representative, Training & Placement Cell(TPC)   June 2020 - May 2022

- Played an integral part in successfully hosting internship and placement sessions, with more than **250+** companies, resulting in **1000+ hires.**

Executive, Student Alumni Interaction Cell(SAIC)   August 2018 - May 2022

- **Lead** a Team of 10 student members for cleaning & maintaining the **100 Year Alumni Database**.
- Played an major role in the **Core Team** of **Alumni Visiting Faculty Program**; supervised a course **"Economics and Finance for Engineers"** as a part of the HULM Curriculum of the Institute.
- **Supervised the Hospitality Management** of the Centenary Celebrations organised in 2019 & 2020.

HONOURS AND ACHIEVEMENTS

- Secured **Second Position** in Udyog (**A Case Study Event**), Osmoze'20 IIT (BHU).
- **Honourable Mention** for **Mr.Chemical** Title for outstanding overall performance in SoChem Activities 2018-19 and Osmoze'19 (Annual Chemical Engineering Departmental Fest).
- Attained **First Position** in a **Case Study** Event 2018, organised by the Society of Chemical Engineers.
- Entitled with the **Student of the Year** Title for being the best overall performer in Intra-School and Inter-School Activities throughout the year session 2016 - 17.