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Projects

Predictive Modelling on Train Accident Dataset   **October 2024 - November 2024**

- Predict passenger survival in train accidents using advanced machine learning models to enhance safety measures and inform emergency response strategies
- **Tech**: R, dplyr, caret, class, e1071, rpart, randomForest
- Analyzed train dataset, implemented diverse machine learning models (KNN, Naive Bayes, Decision Trees, Random Forest, Linear Regression), performed data loading, cleaning, imputation, and factor conversion. Created visualizations to interpret and present model results, providing insights into factors affecting passenger survival rates

Growing Store's Data Analysis 2022   **April 2024 - May 2024**

- Analyze Growing Store's financial, operational, and market performance for 2022 to derive actionable insights and drive business improvements
- **Tech**: MS Excel
- Conducted comprehensive ETL processes for data collection, cleansing, and transformation. Performed in-depth analysis of financial and operational metrics, studied market trends, customer feedback, and sustainability practices. Created interactive visualizations and presented insights in an engaging dashboard, enabling data-driven decision-making and strategic planning

Mall Customer Analysis   **April 2024 - May 2024**

- Analyze gender distribution, age demographics, annual income, and spending scores of mall customers to derive insights
- **Tech:** R, readr, dplyr, tidyr, ggplot2, plotly, flexdashboard, rmarkdown
- Developed a dashboard using R programming to analyze mall customer data, focusing on gender, age, income, and spending scores. Key findings include higher female representation, most customers aged 30-40, varied income levels, and nuanced spending behaviors. Insights aimed to enhance targeted marketing and optimize profitability

Summer Training

Techvanto Academy – C++ Programming Language   **June 2024 - July 2024**

Understand the fundamentals of C++, develop efficient coding skills, and solve problems in programming contests

Project: Payroll Management System

- Created a system to automate employee payment processes using C++. Key features included employee information management, attendance tracking, salary calculation, payslip generation, tax filing, and reporting
- Successfully streamlined payroll operations, reduced manual errors, and ensured compliance with regulations

Certificates

- **Data Visualization with Tableau - Coursera**   **November 2024**
- **Supervised Machine Learning: Regression and Classification - Coursera**   **October 2024**
- **Excel Skills for Data Analytics and Visualization – Coursera**   **March 2024**

Technical Skills

Languages: Python, C, C++, Java, R

Technologies/Frameworks: Django, Pandas, NumPy, Artificial Intelligence (AI), Tableau, MS Excel

Skills: Data Structures and Algorithms, Problem-Solving, Web Design, Adaptive Learner, Creativity, UI/UX Design

Education

Lovely Professional University Punjab   **2022 – Present**
Computer Science and Engineering — CGPA: 7.10   *Jalandhar, Punjab*

Bhartiya Vidya Mandir Senior Secondary School   **2020 – 2021**
12th with Science — Percentage: 93.4%   *Ludhiana, Punjab*

Bharti Bal Vidya Mandir Senior Secondary School   **2018 – 2019**
10th with Science — Percentage: 93.09%   *Ludhiana, Punjab*