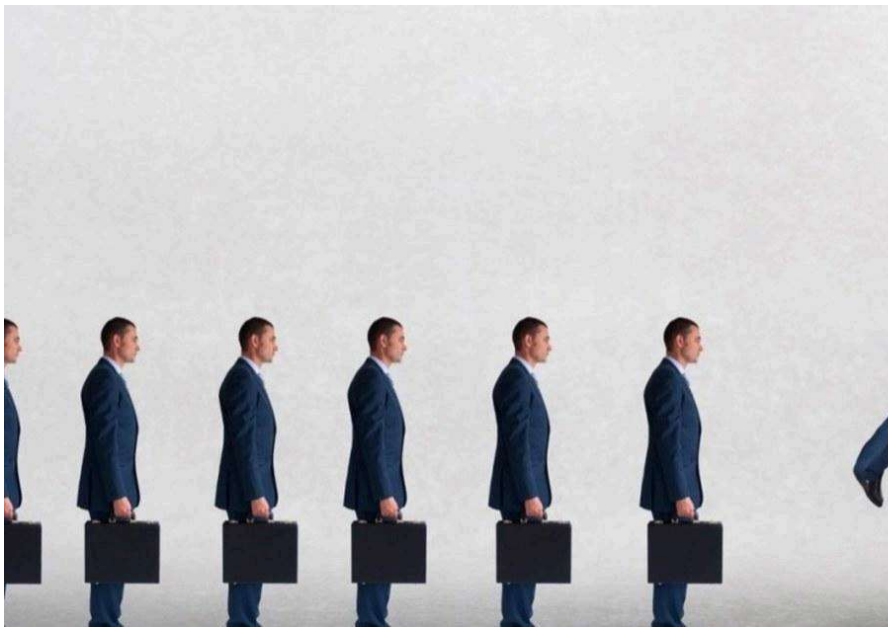
Navigation

Select a Page

- (•) Project Information
- ( ) Employee Churn Prediction
- ( ) Data Visualization



Project Image

Project and Data Information

Project Description: This project involves predicting employee churn using HR data. The dataset inc
contains information about employees who have either stayed or left the company.

Dataset Attributes:

- `satisfaction_level` : Employee satisfaction level, ranging from 0 to 1.
- `last_evaluation` : Performance evaluation score by the employer, ranging from 0 to 1.
- `number_projects` : Number of projects assigned to the employee.
- `average_monthly_hours` : Average number of hours worked per month by the employee.
- `time_spent_company` : Number of years the employee has spent with the company, indicating ex
- `work_accident` : Whether the employee has had a work accident (1) or not (0).
- `promotion_last_5years` : Whether the employee has had a promotion in the last 5 years (1) or nc
- `departments` : Department where the employee works.
- `salary` : Salary level of the employee (low, medium, high).
- `left` : Whether the employee has left the company (1) or not (0).

Project Steps:

1. **Exploratory Data Analysis (EDA)**: Observing data structure, identifying outliers and missing valu
   that affect the target variable using data visualization techniques.
2. **Data Pre-Processing**: Scaling and encoding data to enhance the accuracy of classification algori
3. **Cluster Analysis**: Performing clustering based on characteristics identified during EDA to group
4. **Model Building**: Splitting data into training and test sets, then training classification models (Ra
   evaluating their performance.
5. **Model Deployment**: Deploying the trained models using Streamlit to allow users to input data a