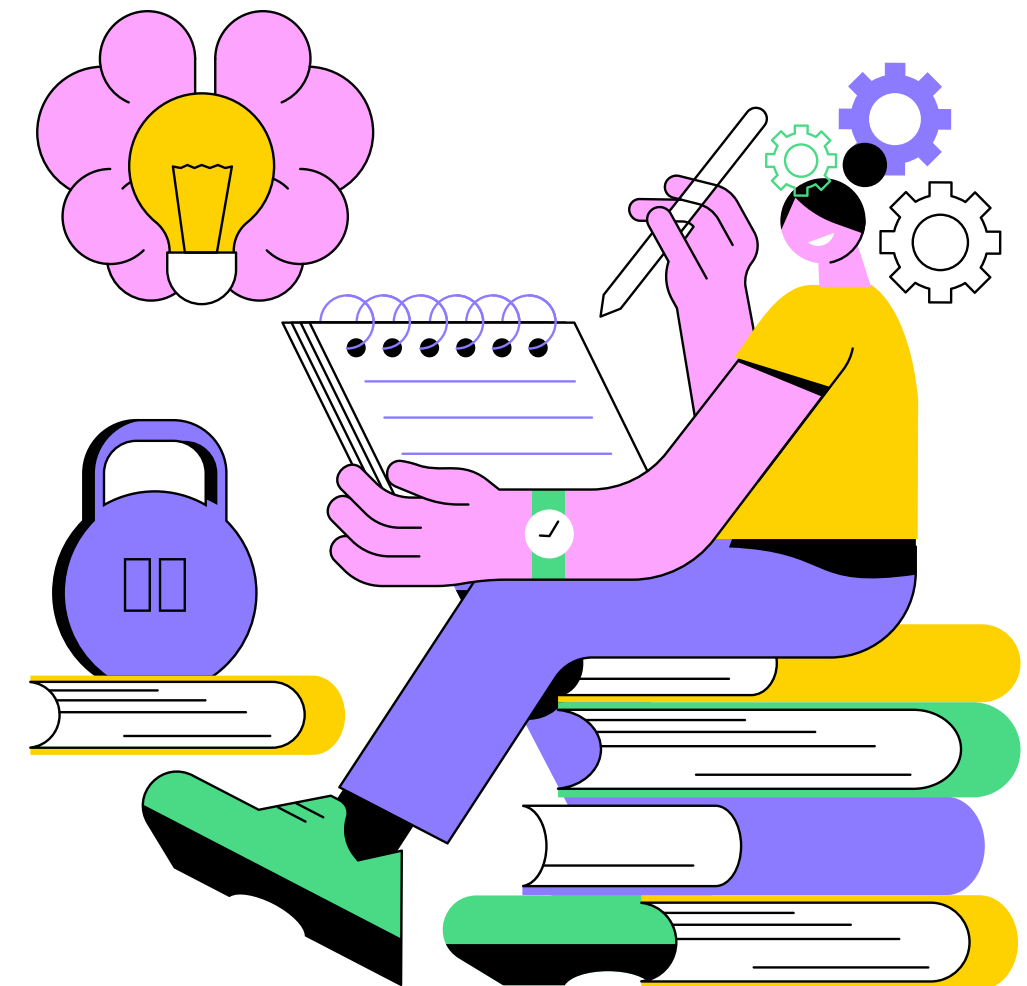# About Us

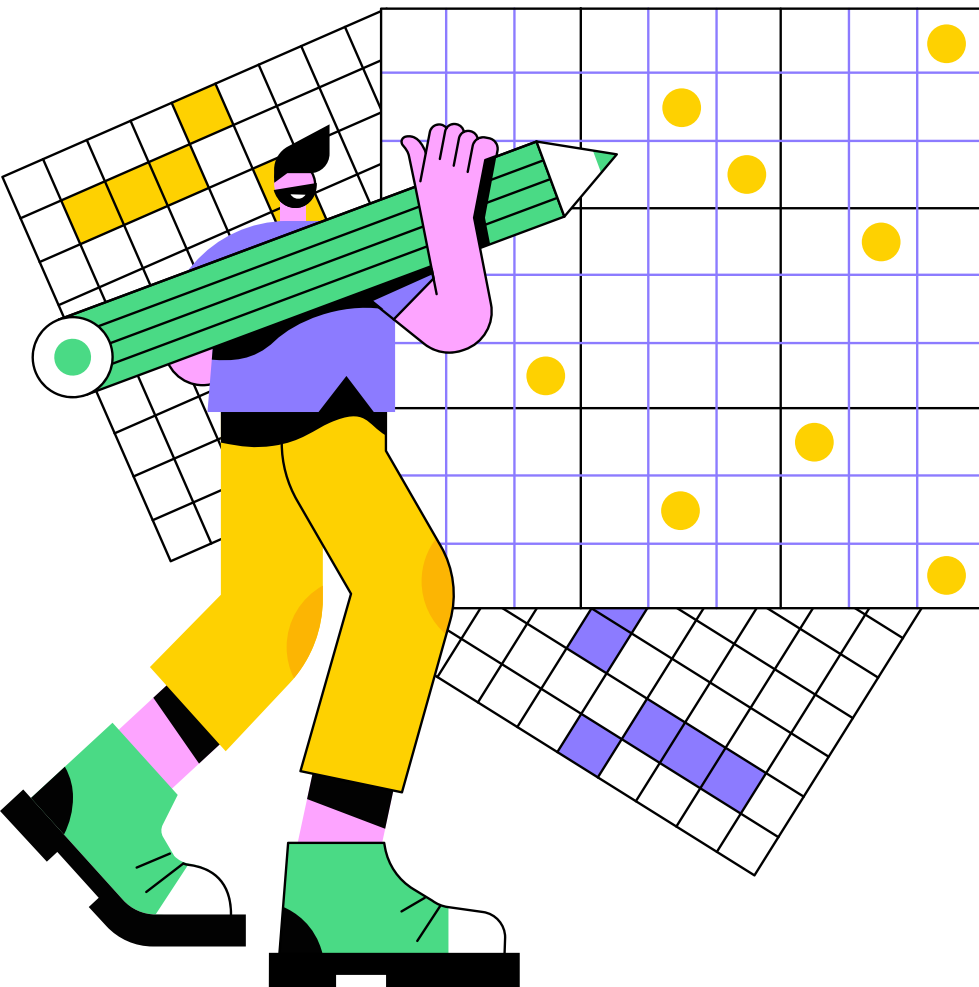- **Saiket Systems is a prominent technology company renowned for its expertise in the dynamic fields of cloud computing, blockchain, artificial intelligence (AI), and machine learning (ML).**

- **The company excels in delivering impactful projects and solutions tailored to the evolving needs of businesses.**

- **Saiket Systems offers a diverse array of products and services, including robust cloud computing solutions, innovative blockchain technologies, advanced AI systems, and sophisticated ML algorithms.**

SaiKet Systems

MSME
Micro, Small, & Mediam Enterprises
सूक्ष्म, लघु, एवं मध्यम उद्योग
MSME BUSINESS FORUM

Instructions

SaiKet Systems

- **Update your LinkedIn profile with your achievements, like offer letters or internship certificates from SaiKet Systems. Mention and tag SaiKet Systems in your posts. Use hashtags like #SaiKetSystemsJourney #SaiKetExperience #FutureWithSaiKet to showcase your association.**

- **Avoid plagiarism and code duplication. These violations can lead to internship termination and future opportunities loss with us.**

- **Create a video showcasing your completed tasks. Post it on LinkedIn, tag SaiKet Systems, and use hashtags like #SaiKetInnovation #SaiKetAchievements #SaiKetProjects to engage with our community.**

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SUBMISSION

- Create a professional video showcasing your internship projects and achievements.

- Host the video on LinkedIn to provide proof of your work and establish credibility among your peers. Consider tagging Saiket Systems in your posts to ensure they are notified of your work.

- A SUBMISSION FORM will be shared later. Till then please continue your task and make a separate file of each level.

- When posting the video on LinkedIn, include the following hashtags to maximize visibility and engagement: #saiketsystems #saiket #saiketsys. Additionally, depending on your internship domain.
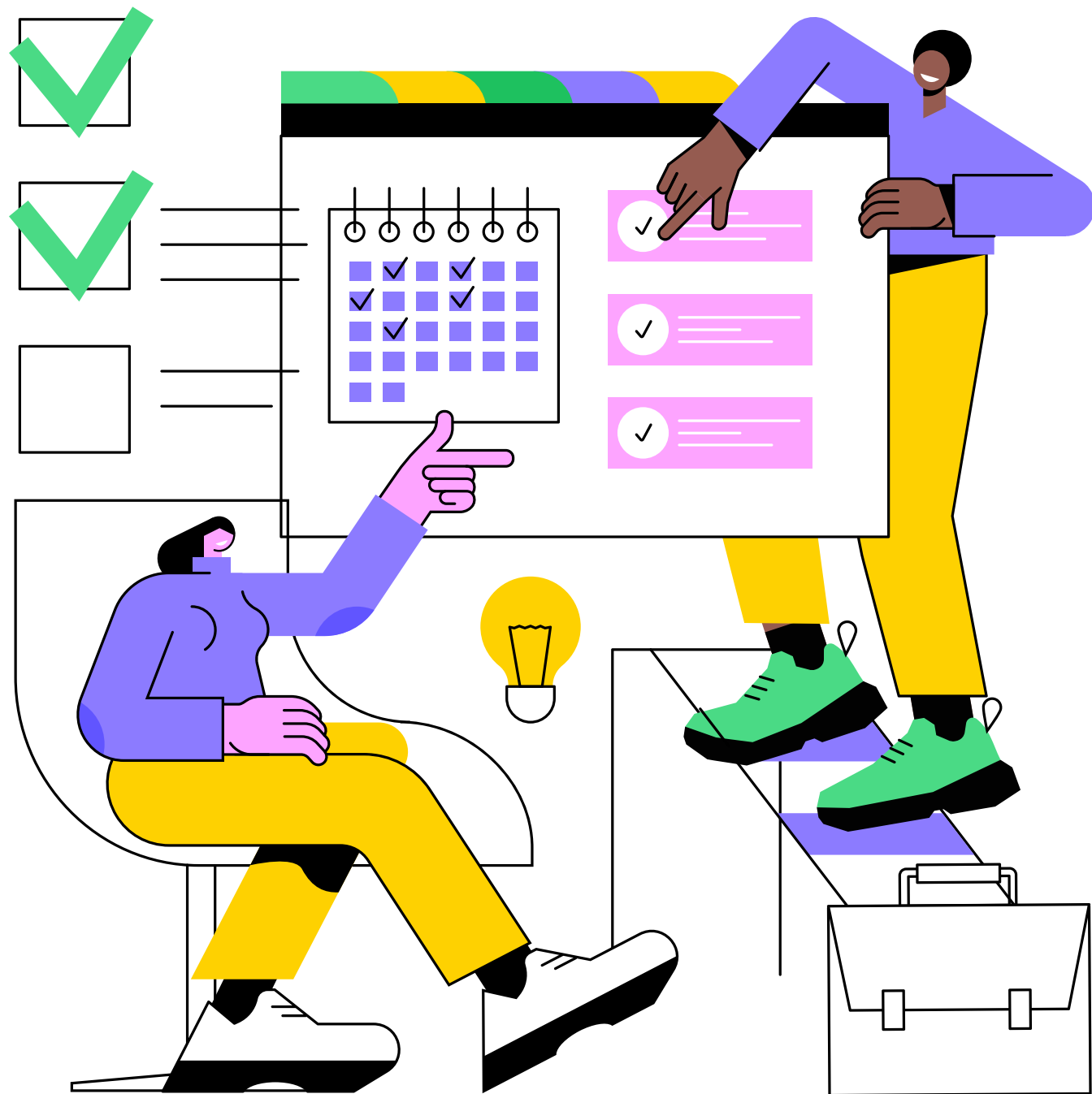
Project Title: Customer Segmentation Visualization & Advanced Analysis

Project Overview:

The project aims to analyze customer churn in a telecommunications company and develop predictive models to identify at-risk customers. The ultimate goal is to provide actionable insights and recommendations to reduce churn and improve customer retention.

Note: You have to complete 4 tasks out of 5.

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Tasks 1: Understand the Dataset

Description:
- Familiarize yourself with the dataset.
- Steps:
- Load the dataset using pandas.
- Display the first 10 rows.
- Identify the data types of each column.
- Check for missing values.

Skills :
- Data loading.
- exploring datasets.
- identifying data issues.

- **Tasks 2: Data Cleaning (Ensure the dataset is clean for analysis.)**

Description:

- **Handle missing values appropriately (e.g., fill, drop, or impute).**
- **Remove duplicate records if any.**
- **Standardize column names (convert to lowercase and replace spaces with underscores).**

Skills :

- **Cleaning data.**
- **handling missing values.**
- **and data preparation.**

Tasks 3: Exploratory Data Analysis (EDA)

Description:

- **Understand trends and distributions in the data.**
- **Generate summary statistics (mean, median, mode).**
- **Create visualizations for numerical columns (histograms, box plots).**
- **Analyze churn rates (e.g., churn vs. non-churn proportions).**

Skills :

- **Statistical analysis**
- **data visualization.**

Tools : Matplotlib, Seaborn.

Tasks 4: Customer Segmentation Visualization

Description:

- **Visualize customer distribution by tenure using pie or donut charts. (e.g., 0-12 months, 13-36 months, 37+ months).**
- **Use a clustered bar chart to compare average monthly charges across tenure categories,**
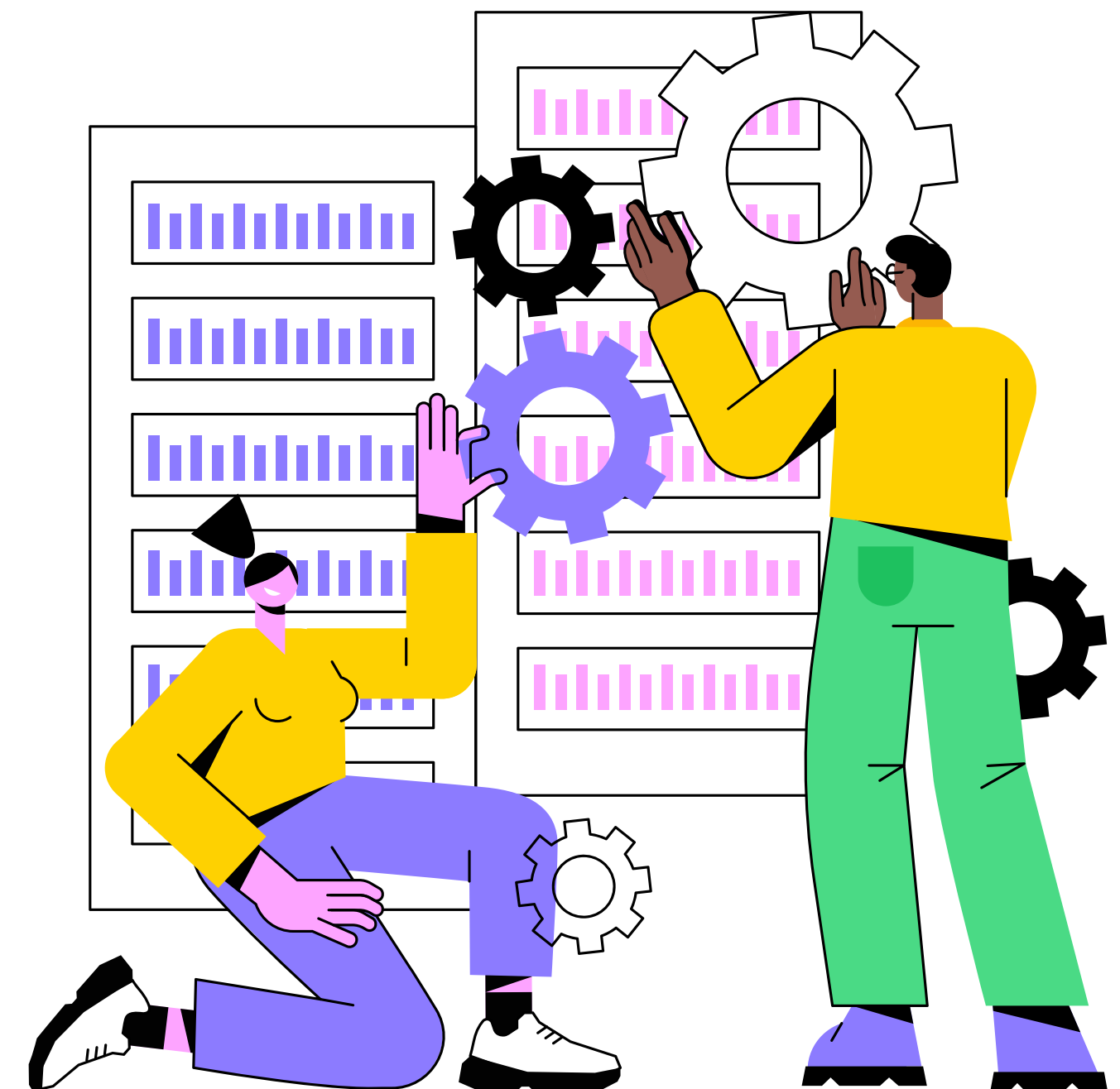- **adding annotations to highlight significant trends.**

Skills :

- **Pie charts**
- **clustered bar charts**
- **interactive visualization.**

Tools: Matplotlib, Plotly

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Tasks 5: Advanced Analysis

Description:
- **Perform deeper analysis by grouping customers by tenure to compute statistics for charges and churn.**
- **Analyze churn rates by demographics (e.g., gender, senior citizen status).**
- **payment methods, and contract types.**
- **Visualize trends over time (if applicable) or lifecycle stages to identify patterns.**

Skills :
- **Data Grouping**
- **Statistical Analysis**
- **Data Visualization**
- **Demographic Analysis**
- **Comparative Analysis**

How to Contact Us?

To find out more information, please contact us

in @saiketsystems

✉ support@saiket.in

🌐 www.saiket.in

📷 @saiket_systems