

# DATA ANALYTICS INTERNSHIP



Ariesian Tech

# Ariesian Tech

Discover -- Create -- Excel





# About Us

**Our company develops advanced AI and machine learning products to enhance safety by predicting, preventing, and mitigating risks across various domains. We focus on integrating AI/ML with real-time data, IoT devices, and automated systems to detect hazards, optimize response times, and provide actionable insights, empowering users to make informed decisions and stay protected.**







# Instructions

- 1) For the internship ,you will need to complete any 4 task at your convenience for successful completion of the internship.**
- 2) Create a new Github repository and name it Ariesian Tech and share the link of the Github repo in the submission form( it will be shared later through email .**
- 3) Update your LinkedIn profile to reflect your current internship position with Ariesian Tech. Ensure your profile is professional and accurately represents your role and responsibilities.**
- 4) Feel free to use online resources, such as Google Search and official documentation, to assist you in completing your tasks. Make sure to understand and properly implement any external resources you refer to.**



# Submission

**1) A task submission form will be shared via email once you've completed your selected tasks. Please ensure all tasks are finished before submission.**

**2) Create a new GitHub repository titled "Ariesian Tech" and upload all relevant code and documentation for your tasks. Ensure that the repository is well-organized and includes a README file that explains your work.**

**3) Post the demo video on your LinkedIn profile to demonstrate your work to peers and potential employers. This will also serve as proof of task completion. Also tag @AriesianTech.**

**4) Please add #ariesiantech in each of your task video postings on LinkedIn, Additionally, you can also add hashtags such as #internship #webdevelopment. for more reach and visibility.**





# Task No 01

## ***Population in Pakistan***

- **Population growth is a significant factor that negatively impacts Pakistan and many other countries around the world**
- **Over the past decade, Pakistan has experienced a significant surge in population.**
- **Analyzing the population growth rate could serve as an excellent data science project.**

**For Dataset click [here](#)**



## Task No 02

# Analyze Sales Data

- **Analyze the sales data of a retail company to identify trends, peak sales periods, and popular products.**
- **Use the data to make recommendations for improving sales strategies**

**Tools: Excel, Python (Pandas, Matplotlib etc), or any data visualization tool**

**For Dataset Click [here](#)**





## Task No 03

### 80 CEREALS

- If you like to eat cereal, do yourself a favor and avoid this dataset at all costs. After seeing these data it will never be the same for me to eat Fruity Pebbles again. Do an explained data analysis

For Dataset Click [here](#)



# Task No 04

## TOUR AND TRAVEL CUSTOMER CHURN PREDICTION

- The Tour & Travels Customer Churn Prediction dataset assists a travel company in predicting customer churn. It includes indicators such as age, frequent flyer status, annual income class, services opted frequency, social media account synchronization, and hotel bookings.
- The goal is to build predictive models to save company resources. The dataset, used for practice and in a hackathon, is freely available. Analysts can perform exploratory data analyses to reveal insights for effective churn prediction. The binary target variable distinguishes customers who churn (1) from those who don't (0), guiding the modeling process.

For Dataset click  
[here](#)



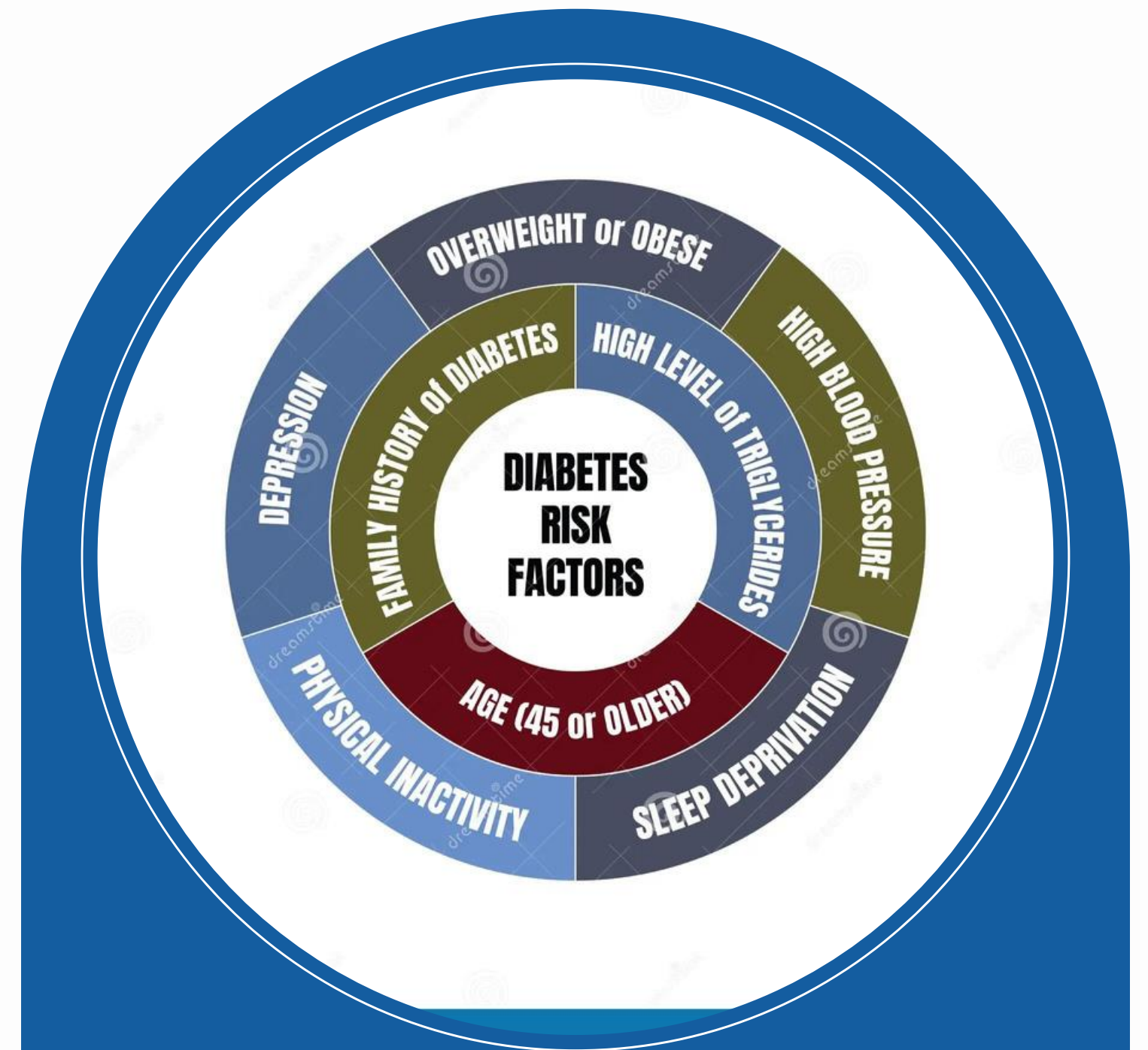


# Task No 05

## Diabetes Risk Factor Analysis

**Analyze the Diabetes Prediction Dataset to identify key risk factors that contribute to the likelihood of developing diabetes. Use statistical methods and visualizations to explore the relationships between various health attributes and diabetes outcomes.**

**For Dataset click [here](#)**





# Task No 06

## Analyzing Facebook Post Engagement for a Famous Cosmetic Brand

**To analyze the relationship between the types of posts made by a famous cosmetic brand on its Facebook page and the engagement metrics (likes, comments, shares, etc.) to determine which types of posts generate the most interaction.**

**For Dataset click [here](#)**





# INTERNSHIP AIM

## **Skill-building and Improvement**

The goal of this internship is to gain knowledge and develop skills.

Our internship aims to support your learning and development.

You have the freedom to seek guidance as you see fit.

The tasks provided might seem either straightforward or challenging.

We expect you to approach each task with a high level of professionalism and to dedicate the attention each one deserves.







**THANK YOU!**