# **Aspire Internship Program**

### IT Business Incubator, CUET

Chittagong University of Engineering and Technology

Aspire Education Foundation

#### TASK 1

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[GitHub](https://github.com/sakib762) [Kaggle](https://www.kaggle.com/sakiburrahman2000)

**1. Machine Learning**

**Tools & Technologies:** Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook

**Highlight**: Implemented and analyzed various real-world machine learning problems using regression, classification, and clustering techniques. Gained hands-on experience with data preprocessing, model training, evaluation, and visualization.

**Projects**:

[Breast Cancer Prediction (Classification)](https://github.com/sakib762/Machine-Learning-Experiment/blob/main/Breast_Cancer_ML_07.ipynb)

[Loan Status Prediction](https://github.com/sakib762/Machine-Learning-Experiment/blob/main/loan_status_prrediction_ML_06.ipynb)

[Twitter Sentiment Analysis](https://github.com/sakib762/Machine-Learning-Experiment/blob/main/Twitter_Sentiment_ML_08.ipynb)

[Medical Insurance Cost Prediction](https://github.com/sakib762/Machine-Learning-Experiment/blob/main/Medical_Insurance_Cost_pred_ML01.ipynb)

[Customer Segmentation (Clustering)](https://github.com/sakib762/Machine-Learning-Experiment/blob/main/Customer_Segmentation_ML_05.ipynb)

[Calories Burnt Prediction](https://github.com/sakib762/Machine-Learning-Experiment/blob/main/Calories_Burnt_Prediction_ML_03.ipynb)

[Big Mart Sales Forecasting](https://github.com/sakib762/Machine-Learning-Experiment/blob/main/Big_Mart_Sales_Prediction_ML_02.ipynb)

[Air Quality Forecasting](https://github.com/sakib762/Machine-Learning-Experiment/blob/main/Air_Quality_Forecasting_ML_04.ipynb)

**2. Codveda ML Internship Projects**

**Platform**: Codveda Internship (via GitHub)

**Skills**: Machine Learning, Data Analysis, Model Building, Exploratory Data Analysis (EDA), Python, Jupyter Notebook

**Highlight**: Completed multiple end-to-end machine learning projects during the internship, covering data preprocessing, feature engineering, model training, and evaluation.

**GitHub Repository**: [Codveda ML Internship Projects](https://github.com/sakib762/codveda-ml-internship)

**3. AI-Powered Kids Video Generation (In Progress)**

**Project Name:** AI Kids Video Generation

**Technologies:** Python, Replicate API, Django REST Framework, TTS, Cartoon Image Generation

**Skills:** AI Integration, REST API Development, Automation Concepts, Multilingual Content Design

**Highlight:** Exploring the development of an AI-powered pipeline to generate cartoon-style animated videos for children based on multilingual stories (English, Bengali, Hindi). The system aims to automate the process from story input to video output using free AI tools and APIs.

Note: This is a work-in-progress prototype showcasing my interest in AI + creative automation.

**GitHub Repo**: [AI Kids Video Generation](https://github.com/sakib762/AI_kids_video_generation)

**4. Django Student Management System**

**Project Name**: Student Management System

**Technologies Used**: Django, SQLite, HTML, CSS, Bootstrap

**Skills:** Django Models & Views, CRUD Operations, Role-Based Access, Admin Panel Customization

**Highlight:** Developed a web-based student management system using Django to manage students, courses, subjects, staff, and admins. The system allows role-based access control, where admins can add or manage teachers and students, and teachers can manage subjects and take attendance. Implemented user authentication, dynamic dashboards, and clean UI for ease of use.

**GitHub Repository:** [Django Student Management](https://github.com/sakib762/Django-Student-Management)

**5. Simple Web Calculator**

**Project Name**: Basic Calculator Web App

**Technologies Used**: HTML, CSS, JavaScript

**Skills:** DOM Manipulation, Event Handling, Frontend Logic Implementation

**Highlight**: Created a responsive web-based calculator that performs basic arithmetic operations such as addition, subtraction, multiplication, and division. The project helped strengthen JavaScript fundamentals like event listeners and dynamic content updates using DOM manipulation.

**GitHub Repository:** [Calculator](https://github.com/sakib762/calculator)

**Certifications & Trainings:**

EDGE Project (CUET)