Project Title	EdTech Startup Analysis
Technologies	PowerBI/Tableau
Domain	Education
Project Level	Difficult
Organization	INeuron Intelligence Private Limited

Table of Content

1. Problem Statement:

Educational technology (Ed-Tech) refers to a wide range of teaching and learning-related software and hardware that is increasingly being used in college and university classrooms. The ultimate purpose of educational technology, commonly known as Ed Tech, is to provide a better learning environment, which in turn is intended to improve student results. It's also been shown to boost student involvement and participation in class.

Educational technology (Ed-Tech) is a technology that typically aids in the facilitation of cooperation in an active learning setting. Educators can use educational technology to develop digital, interactive textbooks, gamify courses, take attendance, assign homework, hold quizzes and assessments, and receive real-time results linked to teaching subject, style, and format. Traditional education and teaching methods are being disrupted by educational technology, which allows both teachers and students to learn in an environment that makes use of now-common gadgets such as smartphones, computers, and tablets.

The Dataset:

Collect and analyze data of various competitive brands in the Ed-Tech industry and draw a comparison between them based. Some of the metrics that you can base your comparison on are as follows:

- Revenue Model
- Income
- Sales
- Product and Services offered
- Popularity
- Quality of content delivered
- Customer Satisfaction
- Placement Rate
- Return on Investment
- Marketing strategies
- Number of customers
- Net Worth
- Customer reviews

Tasks involved:

- Perform ETL (Extract, Transform and Load) tasks to prepare the data for analysis purposes.
- Perform various data visualization and analysis techniques and submit a detailed report such that the insights can directly be interpreted by a business owner aiding him/her set-up a new profitable Ed-Tech business and become an industry leader.
- On the basis of the conclusions derived from your analysis, create a report on how Indian Ed-Tech companies can compete in international markets. Draw a comparison between Indian Ed-Techs and international Ed-Techs and analyze the pros and cons of both.

Note: Feel free to include international Ed-tech competitors in your analysis too.

2. Project Evaluation metrics:

2.1. Code:

- You are supposed to write code in a modular fashion
- Safe: It can be used without causing harm.
- Testable: It can be tested at the code level.
- Maintainable: It can be maintained, even as your codebase grows.
- Portable: It works the same in every environment (operating system).
- You have to maintain your code on GitHub.
- You have to keep your GitHub repo public so that anyone can check your code.
- Proper readme file you have to maintain for any project development.
- You should include basic workflow and execution of the entire project in the readme file on GitHub.
- Follow the coding standards.

2.2. Database:

MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas.

2.3. Cloud:
You can use any cloud platform for this entire solution hosting like AWS, Azure or GCP

2.4. API Details or User Interface:
You have to expose your complete solution as an API or try to create a user interface for your model testing. Anything will be fine for us.

2.5. Logging:
Logging is a must for every action performed by your code, use the python logging library for this.

2.6. DevOps Pipeline: Build complete Continuous Integration, Continuous Testing, and Continuous Deployment pipelines for multi stage such as test environments and production environment. Docker containers/ Kubernetes cluster must be used for deployment of applications.

2.7. Deployment:
Implementation of reverse proxy, load balancing, and security group is mandatory for deployed applications.

2.8. Solutions Design:
You have to submit complete solution design strategies in HLD, LLD, and Wireframe documents**.**

2.9. System Architecture:
You have to submit a system architecture design in your wireframe document and architecture document.

2.10. Optimization of solutions:
Try to optimize your solution on code level, architecture level, and mention all of these things in your final submission.
Mention your test cases for your project.

3. Submission requirements:

3.1. High-level Document:

You have to create a high-level document design for your project. You can reference the HLD form below the link.

Sample link: HLD Document Link

3.2. Low-level document:

You have to create a Low-level document design for your project; you can refer to the LLD from the link below.

Sample link: LLD Document Link

3.3. Architecture:

You have to create an Architecture document design for your project; you can refer to the Architecture from the link below.

Sample link:Architecture sample link

3.4. Wireframe:

You have to create a Wireframe document design for your project; refer to the Wireframe from the link below.

Demo link: Wireframe Document Link

3.5. Project code:

You have to submit your code to the GitHub repo in your dashboard when the final submission of your project.

Demo link: Project code sample link

3.6. Detail project report:

You have to create a detailed project report and submit that document as per the given sample.

Demo link: DPR sample link

3.7. Project demo video:

You have to record a project demo video for at least 5 Minutes and submit that link as per the given demo.

Demo link: Project sample link

3.8. The project LinkedIn a post:

You have to post your project details on LinkedIn and submit that post link in your dashboard in your respective field.

Demo link: Linkedin post sample link