



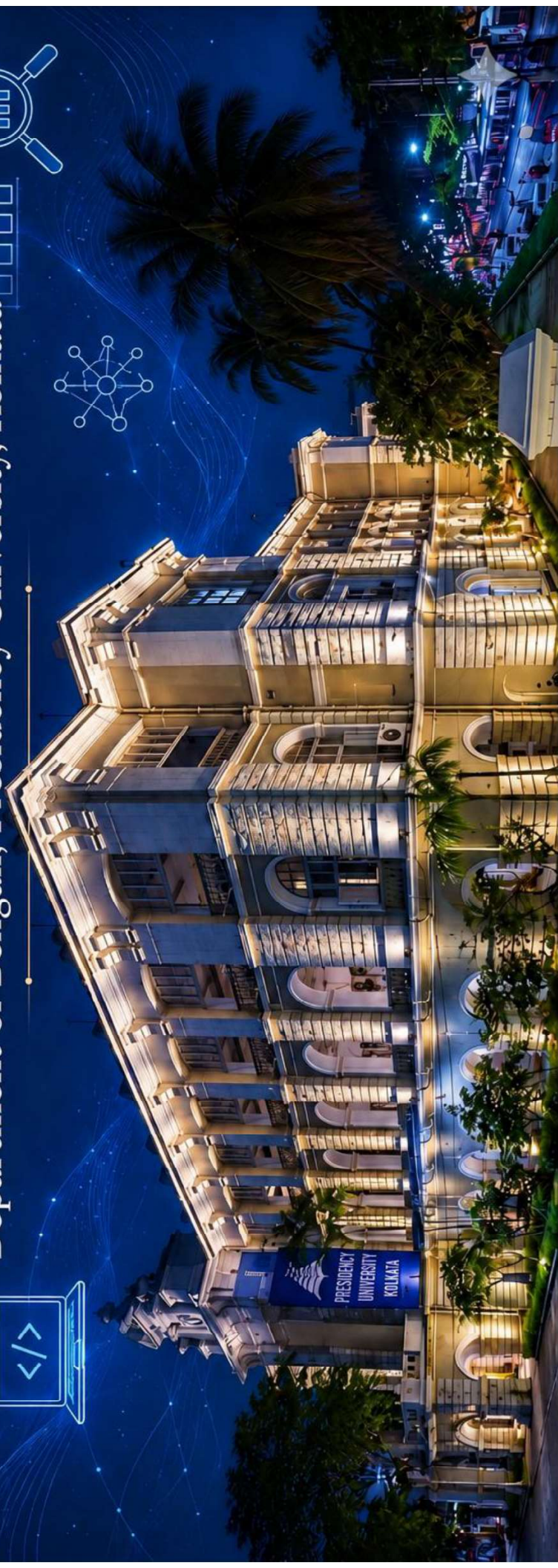
# From Language to Intelligence Computational Thinking

## and AI in Bengali Studies



— VALUE ADDED COURSE 2026 —

Department of Bengali, Presidency University, Kolkata



# Why This Course?

## AI × Language × Research

In an era where technology redefines every discipline, this course bridges **artificial intelligence, humanities computing, and digital research.**



**Artificial Intelligence**  
Understand the engines behind modern AI systems.



**Humanities Computing**  
Apply technology to literature, culture, and language.



**Digital Research**  
Modernize your research methodology with AI tools.



**Future Skills**  
Prepare for the changing academic and professional landscape.

# Learning Journey



1



Computational Thinking



2



Python Programming



4



Machine Learning

5



Natural Language Processing

6



AI Tools and LLMs

7



Digital Research Projects



PRESIDENCY COLLEGE

# Core Modules



## Students will learn:



Python



Data Science Foundations



AI Tools



Research Automation



Bengali Text Processing



Basic NLP

## Topics:

1



Computational Thinking  
for Humanities

2



Python Programming  
for Language Data

3



Data Science  
Foundations

4



Introduction to  
AI and Machine Learning

5



Introduction to NLP

6



AI-Assisted Research  
and Knowledge Discovery

7



Responsible AI  
and Academic Ethics

8



Digital Humanities  
Foundations

# Project Studio

Hands-on experience through real-world applications and research projects.



## Bengali Corpus Analysis

Using NLP to analyze linguistic patterns in Bengali literature.



## Literary Analytics

Computational approaches to stylistic and thematic analysis.



## AI Research Assistant

Building custom tools to streamline academic literature reviews.

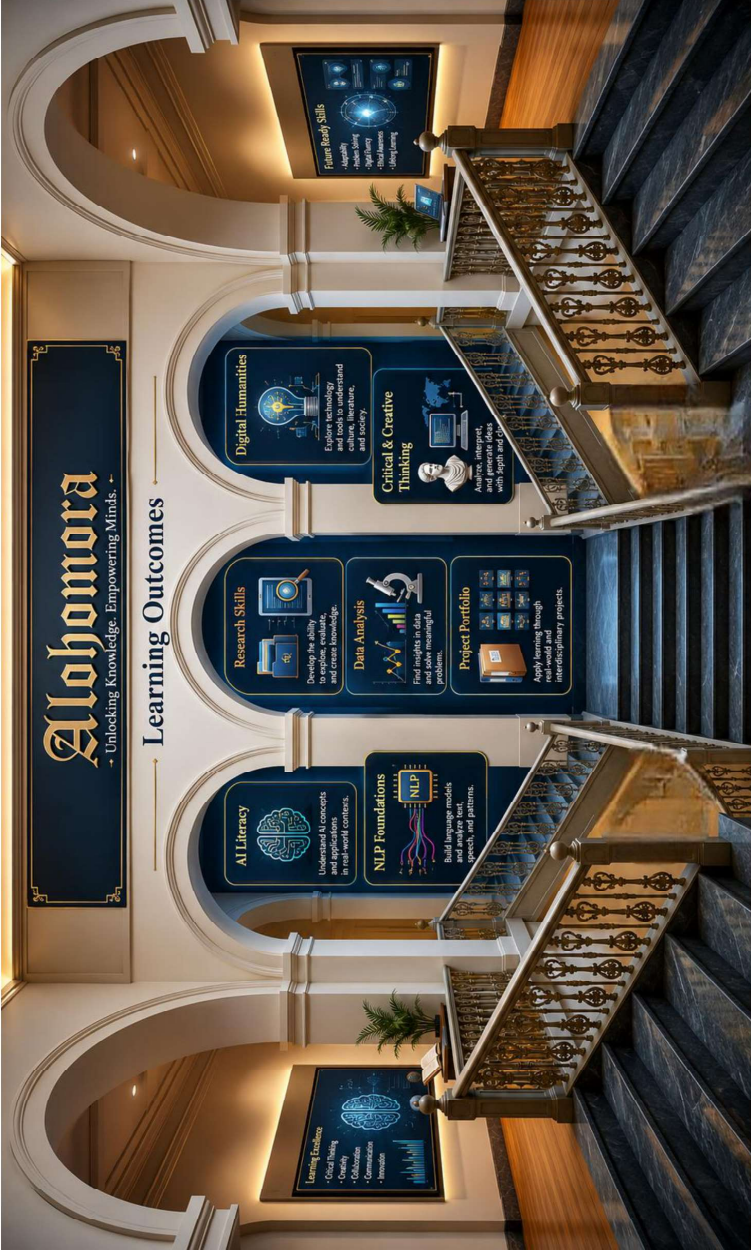


## Bengali Chatbot Development

Creating conversational agents for regional language support.







# Expecto Patronum

Join the Future of Research

## From Language to Intelligence:

Computational Thinking and AI in Bengali Studies



30 Hours Project-Based Learning Environment



PRESIDENCY UNIVERSITY  
KOLKATA

### Department of Bengali



Interdisciplinary Learning



AI & Computational Thinking



Collaborative Research



Innovate, Analyze, Impact