

**SCHOOL OF COMPUTER SCIENCE & ENGINEERING**
**PROJECT APPROVAL FORM AND ABSTRACT**

Even 2026-2027

## B.Tech Project Details

Project ID: *BTP 2CSE 288*

Project Title	<i>Sarcasm Detector from News Headlines</i>		
Project Type	<input type="checkbox"/> Community-Based Design Problem (Interdisciplinary) <input type="checkbox"/> App Development/Utility <input type="checkbox"/> IOT/Hardware-based <input checked="" type="checkbox"/> AI/ML/Data Science <input type="checkbox"/> Healthcare Projects <input type="checkbox"/> Cyber Security and networking	Project Outcome	<input type="checkbox"/> Project and Research Paper <input type="checkbox"/> Project and Patent <input type="checkbox"/> Project and Book Chapter
		SDG Goal Number	
Publication Target	<input type="checkbox"/> SCOPUS Journal <input type="checkbox"/> SCOPUS Conference <input type="checkbox"/> SCI Journal <input type="checkbox"/> SCOPUS Book Chapter	Guide Name: <i>Dr Neha Jain</i>	

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**Sustainable Development Goals (SDGs): Targets and Indicators**

Goal 1: Eliminate poverty in all its manifestations across the world

Goal 2: Eradicate hunger, enhance food security and nutrition, and support sustainable agricultural practices

Goal 3: Promote good health and well-being for people of all ages

Goal 4: Provide equitable and inclusive quality education and encourage lifelong learning opportunities

- Goal 5: Attain gender equality and empower women and girls in all spheres  
Goal 6: Guarantee access to clean water and ensure sustainable sanitation management  
Goal 7: Ensure the availability of affordable, dependable, sustainable, and modern energy sources  
Goal 8: Foster inclusive and sustainable economic development, productive employment, and decent work opportunities  
Goal 9: Develop resilient infrastructure, encourage sustainable industrial growth, and promote innovation  
Goal 10: Minimize inequalities within nations as well as across countries  
Goal 11: Create cities and communities that are inclusive, safe, resilient, and sustainable  
Goal 12: Promote responsible consumption and sustainable production practices  
Goal 13: Take immediate and effective measures to address climate change and its consequences  
Goal 14: Protect and sustainably manage marine and ocean resources  
Goal 15: Conserve and restore land ecosystems, manage forests responsibly, and prevent land degradation and biodiversity loss  
Goal 16: Encourage peaceful and inclusive societies, ensure justice for all, and strengthen transparent and accountable institutions  
Goal 17: Enhance global cooperation and strengthen partnerships to achieve sustainable development objectives

## Abstract

Sarcasm detection is challenging in NLP because sarcastic text flip literal meaning, affecting sentiment tools. This project builds a Sarcasm Detector for news headlines.

After preprocessing, we apply TF-IDF vectorization & train 3 classical models: Naive Bayes, logistic Regression, and Random Forest. The best model reaches [82%] accuracy on test data.

Result show simple ML can capture sarcasm cues effectively, providing a foundation for better online text analysis.

## Problem Statement

Sarcasm in-text, like news headlines, often means opposite of literal words, making it hard for machines to detect correctly. This confuses statement analysis and online content understanding.

This project aims to build Sarcasm Detector using ML to classify news headline as sarcastic or not. By applying basic text processing and classifiers, we explore how well simple models can identify sarcasm pattern.

Signature of Students:

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