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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING – ARTIFICIAL INTELLIGENCE & MACHINE LEARNING (CSM)

(NBA Accredited and DST – FIST Sponsored Department)

TERM PROJECT ABSTRACT

Year: II B. Tech – CSM **Date:**

Section: A **Project Category No** 1

Name of the student: HARSHA VARDHAN REDDY EMANI

Regd. No: 23BQ1A4261

Project Category : Web Scrapping

Title of the Project : Automated Job Market Analysis

Abstract:

"Here's an abstract for my project focused on web scraping job listings from sites like Indeed, LinkedIn, and Glassdoor"

- In today's competitive job market, analysing job listings across various platforms is crucial for understanding market trends, salary benchmarks, and role requirements. This project aims to leverage web scraping techniques to aggregate job listings from prominent employment websites, including Indeed, LinkedIn, and Glassdoor. The primary objective is to extract and compile data related to job roles, salaries, locations, and other relevant job market metrics.
- The project utilizes Python-based web scraping tools such as **Beautiful Soup** and **Scrapy** to collect data from the HTML content of job listings on these platforms. For websites with dynamic content and frequent updates, Selenium is employed to handle JavaScript rendering and ensure accurate data extraction. The scraping process involves navigating complex website structures, managing anti-scraping measures, and complying with legal and ethical guidelines.
- The collected data is analyzed to uncover trends and patterns in job market dynamics, including salary distributions, job availability by location, and the frequency of specific job titles. This analysis supports various applications, including career planning, market research, and strategic hiring decisions. By aggregating and processing job listings from multiple sources, the project provides valuable insights into the evolving employment landscape.

The project demonstrates the practical application of web scraping technologies in employment data analysis, offering a foundation for further research and development in job market intelligence.

Signature of the student Signature of the Guide