

# **AI Resume Analyzer for Job Description**

**<sup>1</sup>Mr. Selva Prabhu, <sup>2</sup>G.Sagar Reddy, <sup>3</sup>G. Surya Prakash, <sup>4</sup>I. Abhinay Reddy, <sup>5</sup>A. Kiran**

Asst. Professor, Department of Computer Science and Engineering <sup>1</sup>

Students, Department of Computer Science and Engineering <sup>2,3,4,5</sup>

Dhanalakshmi College of Engineering, Chennai, Tamilnadu, India

**Abstract:** *The AI Resume Analyzer is a powerful recruitment tool that automates the process of comparing resumes with job descriptions, ensuring efficiency, accuracy, and fairness in candidate screening. It leverages Natural Language Processing (NLP) techniques, including Term Frequency-Inverse Document Frequency (TF-IDF) and Cosine Similarity, to analyze and match resumes against job requirements. A key feature of the AI Resume Analyzer is its ability to identify missing skills in resumes. For example, it highlights gaps when specific job requirements, such as technical expertise or certifications, are not evident in the candidate's profile. The Analyzer also minimizes biases inherent in traditional recruitment methods. By focusing solely on data and qualifications, it promotes fairness and inclusivity, enabling organizations to build diverse teams. Moreover, it eliminates the need for repetitive manual screening, saving time and allowing recruiters to focus on strategic aspects such as interviews and cultural fit assessments. Ultimately, the AI Resume Analyzer transforms recruitment into a streamlined, unbiased, and efficient process. By automating screening tasks and providing actionable insights, it enhances decision-making, reduces hiring timelines, and ensures fair talent acquisition. This modern tool empowers businesses to adapt to the evolving demands of recruitment and secure top talent effectively.*

**Keywords:** Resume Analyzer

