

**MACHINE LEARNING BASED  
CAREER GUIDE FOR  
JOB  
SEEKERS**

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# **MACHINE LEARNING BASED CAREER GUIDE FOR JOB SEEKERS**

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## **PREFACE**

Career prospects are important in defining the personality and experience of an individual. There is always a dilemma while choosing a career path if relevant information about those careers is not known. Career Assistance as a tool helps an individual to make decision by checking their capabilities. It assists by assessing the current skills of the individual to skills required for the career path, the individual is choosing for and provide useful insights about the skills that are to be learnt.

There is a lot of research involved in categorization of the careers as there are lot of ambiguities in understanding the skills of the individual and the job requirements. Through machine learning and natural language processing techniques, Career Assistance tries to resolve the ambiguities in categorization of the careers, providing them with useful insights about the field that they choose irrespective of the current field that the individuals are working on.

Career Assistance has three modules. They are job-oriented module, skills module and higher education module. “Job Oriented” module helps the user to find the job roles and skills required for the job roles based on the given job industry and their educational requirements. “Skills” module, helps in determining which job roles require that skill in the job industry, and defines the other skills that are required additionally. “Higher Education” module helps the user by suggesting appropriate courses, and universities offering those courses after a particular level of education. Elastic search, which is a highly scalable open-source full-text search and analytic engine has been used to extract the

required information for “Job Oriented”, “Skills” modules. The required information as candidate profiles is provided by Intrinsic Science Labs, Hyderabad. Information for “Higher Education” module is obtained through various university information across India. The categorized data is stored in MySQL database for this project. Python is used as the core language for the back-end work. All the modules are accessible as REST API's which are hosted in server of Intrinsic Science Labs.

 *Author*

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