**Project Design Phase-I**
**Solution Architecture**

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| Date | 12 September 2023 |
| Team ID | EXT2023TMID591322 |
| Project Name | The Future of Work: Data Analysis of Glassdoor Jobs |
| Maximum Marks | 4 Marks |

**Solution Architecture:**

It optimizes the future of work by leveraging data analysis of Glassdoor jobs to predict in-demand skills and experience, emerging job trends, and the impact of technology on jobs. It not only enhances career planning and development but also improves the efficiency of workforce planning and talent acquisition. The continuous learning loop ensures that the system adapts to evolving job market trends and maintains high accuracy in its predictions.

Our solution leverages data analysis and machine learning to address the future of work problem effectively.

- **Data Gathering:** Collect data on job titles, company names, salaries, locations, required skills and experience, and job descriptions from Glassdoor.

- **Data Preprocessing:** Clean and prepare the data for analysis. This may involve removing duplicate job postings, filling in missing values, and converting text data to numerical data.
- **Model Building:** Train a machine learning model to predict the future of work, based on the pre-processed data. The model can be trained to predict a variety of things, such as the most in-demand skills and experience, emerging job trends, and the impact of technology on jobs.
- **Future of Work Prediction:** Use the trained machine learning model to analyze the data and generate insights into the future of work. The insights can be used to create reports, charts, and other visualizations that illustrate the key findings.
- **Real Time Analysis:** Make the results of the future of work prediction available to users through a web dashboard, an API, or email reports. The results must be accessible to a wide range of users, including job seekers, employers, and policymakers.

**Solution Architecture Diagram:**