

Smit Mirani:

- **Organized Dataset:** Manage the organization and structuring of the dataset to ensure it aligns with the project's requirements. Address any issues related to data quality and completeness.
- **Dataset Preprocessing:** Implement preprocessing steps to clean and prepare the data for further analysis and model training. Handle tasks such as handling missing values, encoding categorical variables, and scaling numerical features.
- **Building Knowledge Graph:** Utilise the preprocessed data to construct a comprehensive knowledge graph. Define relationships between entities and ensure the graph captures the necessary information for the recommendation system.

Nikhil Ailani :

- **Data Analysis:** Conduct exploratory data analysis (EDA) on the organized dataset. Extract insights and patterns from the data to inform further decisions in the project.
- **Building Knowledge Graph:** Collaborate with SMIT on building the knowledge graph, incorporating insights from data analysis.
- **Testing Model:** Develop and implement testing procedures for the knowledge graph and associated machine learning models. Ensure the robustness and reliability of the models through comprehensive testing.

Shivam Mishra:

- **Architecture - Developing Sequence Diagram:** Design the overall system architecture, including sequence diagrams illustrating the flow of processes and interactions within the system. Ensure clarity and comprehensiveness in representing the system's dynamics.
- **Implementing Graph Attention Model:** Implement the Graph Attention Network (GAT) model for the knowledge graph. Fine-tune and optimise the model's parameters for effective performance.
- **Tools Research and Selection:** Conduct comprehensive research on tools and technologies relevant to the project's objectives. Evaluate various options for data preprocessing, knowledge graph construction, machine learning model implementation, and visualization.

Rutvik Patel:

- **Designing Architecture with Block Diagram:** Develop a detailed block diagram illustrating the architectural components and their interconnections. Ensure that the architecture aligns with the project's objectives and facilitates seamless integration of modules.
- **Project Planning:** Develop a comprehensive project plan outlining timelines, milestones, and task dependencies.

- **Building Recommendation Module:** Develop the recommendation module based on the knowledge graph and machine learning models. Implement algorithms for generating personalized job recommendations for users.

Ziyang Ren:

- **Paper Drafting:** Draft the documentation and research paper for the project. Clearly articulate the methodology, results, and contributions of the knowledge graph machine learning model.
- **Validation Module:** Develop a validation module to assess the performance and reliability of the knowledge graph. Implement metrics and procedures for evaluating the accuracy and effectiveness of the recommendation system.
- **Documentation of Tool and technologies Usage:** Document the usage of selected tools, providing guidelines for team members on how to effectively utilize them. Create a reference document for troubleshooting and best practices related to the chosen tools.