**Vision** **Statement**

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**Our Project: AI-Scheduler:**

The idea is to program an intelligent system that will compute a work schedule for workers based on their roles, preferences, restrictions, etc. Eventually the system will try to learn the optimal work schedule for each worker and suggest it to them. However, it is not possible for the system to give an optimal answer for each worker every single time because circumstances can change, so it will have the ability to compromise and make changes accordingly. We will try to achieve this by implementing machine learning algorithms and data analysis methods.

**Goals:**

* Programming a machine learning algorithm for the system – Essential
* Making a web application that will support the system and make it useable – Essential
* Constructing a database that will contain the essential data for the system - Essential
* The system will be flexible and will have the ability to deal with sudden changes - Essential
* The application will be user friendly – Desirable
* The application will contain a feature for managing workers personal projects, tasks, notes, deadlines etc – Desirable

**Elevator statement:**

For team leaders and managers who want to manage their workers shift schedule and track their progress, the AI-Scheduler system will analyze all essential data and will automatically build shift schedules for every worker. Unlike other systems, our system uses a machine learning algorithm which suggests schedule shift offers based on previous preferences of the workers. In addition, the application includes project management features that will make managers work more comfortably and organized. Our product allows users to maximize efficiency of creating adapted work schedules with a click of a single button and offers a user friendly interface for both managers and workers.