



# DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

## **PROJECT PROPOSAL**

### **1. Project Title: -**

HR productivity boost by using AI

### **2. Project Scope: - (Max 500 words)**

The purpose of this project is to develop a software system or algorithm that uses AI to enhance HR functions and increase productivity. The system will leverage machine learning models and algorithms to analyze HR data and provide insights that can help HR managers make informed decisions.

The project scope includes the following key tasks:

1. Data collection and integration: The system will need to integrate and analyze HR data from various sources, such as employee performance data, recruitment data, and workforce planning data. The data will be collected and stored in a centralized database.
2. Model development: The system will leverage various AI techniques such as natural language processing (NLP), machine learning (ML), and deep learning (DL) to develop models that can help HR managers make data-driven decisions. These models will be trained using historical HR data.
3. Model testing and validation: The models developed in the previous step will be tested and validated using a set of criteria to ensure they meet the desired accuracy and performance requirements.
4. Software development: A software system or algorithm will be developed to integrate the AI models and provide HR managers with an easy-to-use interface to access and analyze HR data.
5. Implementation and deployment: The software system or algorithm will be deployed on the HR system, and HR managers will be trained on how to use it to enhance HR functions.
6. Maintenance and support: The system will be maintained and supported to ensure it continues to operate effectively and efficiently. This will include regular updates, bug fixes, and user support.

The project deliverables include the following:

1. A comprehensive report outlining the project scope, objectives, and outcomes.
2. A functional software system or algorithm that uses AI to enhance HR functions.
3. User manuals and training materials for the software system or algorithm.
4. Technical documentation detailing the system architecture, algorithms, and models used.
5. Ongoing maintenance and support for the software system or algorithm.

The project timeline will be determined based on the scope and complexity of the project and it will include the following milestones:

Phase 1: Project scope, planning and task definition.

Phase 2: Literature Review

Phase 3: Preliminary design

Phase 4: Detailed system design/technical details

Phase 5: Work ethics

End term evaluation

Overall, the system for HR functions to increase productivity using AI will provide HR managers with valuable insights that can help them make informed decisions and improve the overall effectiveness of HR functions.

### **3. Requirements: -**

#### **➤ Software Requirements**

1. Python IDE Tools
2. AI algorithms
3. Labelled Datasets

## STUDENTS DETAILS

Name	UID	Signature
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## APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above and authorize the team to proceed.

Name	Title	Signature (With Date)