# **Human Resource Plan**

### **Purpose**

The Human Resource Plan outlines how project roles, responsibilities, required skills, reporting relationships, and staffing management will be defined, staffed, managed, and eventually released for the **MediScan AI – Smart Pneumonia Diagnosis System** project.

## **1. Staffing Management Plan**

### **Staff Acquisition**

* Internal team members (students) are assigned within the **Innovators** team.
* Faculty advisor **Dr. Khaled Mostafa Elsayed** is assigned as project supervisor.
* External hiring is not required; however, optional external testing support may be contracted during **Week 21–23** if additional evaluation is needed.

### **Resource Calendar**

### **Project Roles, Members, Duration, and Responsibilities:**

### • **Role:** Project Manager / Software Developer **Team Member:** Ahmed Gamal Abdelfatah **Duration:** Weeks 1–25 **Responsibility:** Lead project, manage timeline, develop

### • **Role:** Ai Developer / Ai Developer Designer **Team Member:** Habiba Ayman Amin **Duration:** Weeks 8–21 **Responsibility:** Design and build the Training models

### • **Role:** Backend Developer / API Engineer **Team Member:** Sara Mostafa Ali **Duration:** Weeks 6–22 **Responsibility:** Build REST APIs, integrate AI model, manage database

### • **Role:** Data Analyst / Researcher **Team Member:** Momen Elsayed **Duration:** Weeks 1–12 **Responsibility:** Data collection, preprocessing, and model validation

### • **Role:** Advisor **Team Member:** Dr. Khaled Mostafa Elsayed **Duration:** Weeks 1–25 **Responsibility:** Guidance, evaluation, and final review

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### **Training Needs**

* The team will receive introductory training in **Flask/FastAPI**, **React.js**, and **Docker** during **Week 1–2**.
* Additional self-paced learning on **TensorFlow/PyTorch** and **AWS/GCP deployment** will be encouraged during model development (Weeks 3–10).

### **Recognition and Rewards**

* Outstanding contributions (e.g., achieving top accuracy or completing milestones early) will be recognized in **biweekly review meetings**.
* Completion bonuses and certificates of recognition will be given after the final evaluation for exceptional teamwork and innovation.

### **Release Plan**

* **Data Analyst** (Habiba Ayman Amin) & (Momen Elsayed) will complete tasks by Week 12 after dataset cleaning and validation.
* **Backend Developer** (Ahmed Gamal) and **Frontend Developer** (Sara Mostafa Ali) will complete their parts by Week 22 after integration and testing.
* **Project Manager** (Ahmed Gamal Abdelfatah) and **Advisor** (Dr. Khaled Mostafa Elsayed) will finalize documentation and review in Weeks 24–25.

## **2. Communication Plan**

* **Weekly Team Meetings:** Every **Monday at 10:00 AM** to review progress and assign tasks.
* **Daily Stand-ups:** During development and integration phases (Weeks 6–21) to ensure coordination.
* **Advisor Check-ins:** Biweekly with **Dr. Khaled Mostafa Elsayed** for guidance and evaluation.
* **Progress Reports:** Sent to the advisor and stakeholders every **Friday** summarizing weekly progress.
* **Collaboration Tools:** Communication handled via **Slack**, **Google Drive**, and **GitHub** for document and code sharing.