**IS-5960-04: MRP**

**Employability Analytics Project**

**Week 9 Deliverable:**

**Roadmap**

**Group Name:** Team 16

**Group Members:**

Ananya Chowdary Bheemaneni

Maneesha Kakarla

Bala Krishna Kalavakunta

Laya Kalva

Manohar Kancharla

Sai Venkata Sriram Chowdary Karicheti

**Choose a Roadmap Tool**

* Tool Chosen: Trello

Trello is a flexible, easy-to-use Kanban tool that enables our team to visually organize tasks, assign responsibilities, and track progress in real-time. It allows for effective collaboration and transparency, which is ideal for managing a multi-phase research project like ours.

**Define the Roadmap Scope**

**Purpose of the Roadmap:**To guide the development and execution of our Employability Analytics Dashboard by organizing tasks, milestones, and responsibilities in a visual format. It helps us align efforts and track progress efficiently.

**Time Frame:**15 weeks (aligned with the project timeline from kickoff to final presentation)

**Define Key Milestones and Timeline**

| **Milestone** | **Description** | **Week** | **Dependencies** |
| --- | --- | --- | --- |
| Project Kickoff | Define goals, roles, and tools | Week 1 | None |
| Data Integration Plan | Dataset selection and initial cleaning | Week 2 | Project Kickoff |
| Data Cleaning & EDA | Prepare dataset, explore trends | Week 3–4 | Integration Plan |
| Predictive Model Development | Build and test model | Week 5–6 | Cleaned Data |
| Dashboard Design | Create dashboard wireframe | Week 6–7 | EDA Insights |
| Dashboard Development | Build Power BI dashboard | Week 8–9 | Design Complete |
| Testing & Feedback | Validate dashboard, gather feedback | Week 10–11 | Dashboard Ready |
| Final Deployment | Deploy complete solution | Week 12 | Testing Complete |
| Final Report & Presentation | Document findings & present | Week 13–15 | All Milestones |

**Identify Action Items and Responsibilities**

| **Milestone** | **Action Item** | **Team Member(s)** | **Resources Required** |
| --- | --- | --- | --- |
| Data Integration | Load raw dataset from Kaggle | Manohar Kancharla | Kaggle, CSV files |
| Data Cleaning | Handle missing values, remove duplicates | Maneesha Kakarla | SQL Lite, Power BI |
| EDA | Analyze job market trends and salary | Bala Krishna Kalavakunta, Sai Venkata Sriram | Power BI |
| Predictive Model | Train job trend model | Manohar Kancharla | Python |
| Dashboard Design | Layout and filter design | Ananya Bheemaneni | Power BI |
| Dashboard Development | Build charts and visual elements | Laya Kalva | Power BI, Lucid Chart |
| Testing | Validate features and usability | All Members | User Feedback |
| Reporting | Compile documentation | All Members | MS Word, PowerPoint |

**Address Challenges & Risks**

| **Risk** | **Team Member** | **Mitigation Strategy** |
| --- | --- | --- |
| Inconsistent Data Formats | Maneesha | Data validation scripts and manual review |
| Limited time for testing | Ananya | Add buffer weeks, early testing |
| Dashboard performance issues | Laya | Optimize visuals and queries |
| Predictive model inaccuracies | Manohar | Use large and clean datasets, validate with test data |
| Misalignment on requirements | Sai Venkata Sriram | Weekly check-ins and reviews |
| Visualization complexity | Bala Krishna | User feedback and iterative improvements |

**Grouped risks**

* Data Quality Risks: Resolved via preprocessing and manual review
* Timeline Risks: Mitigated with a buffer and early reviews
* Technical Risks: Mitigated by using proven tools and continuous feedback

Screens screenshot of a computer screen

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