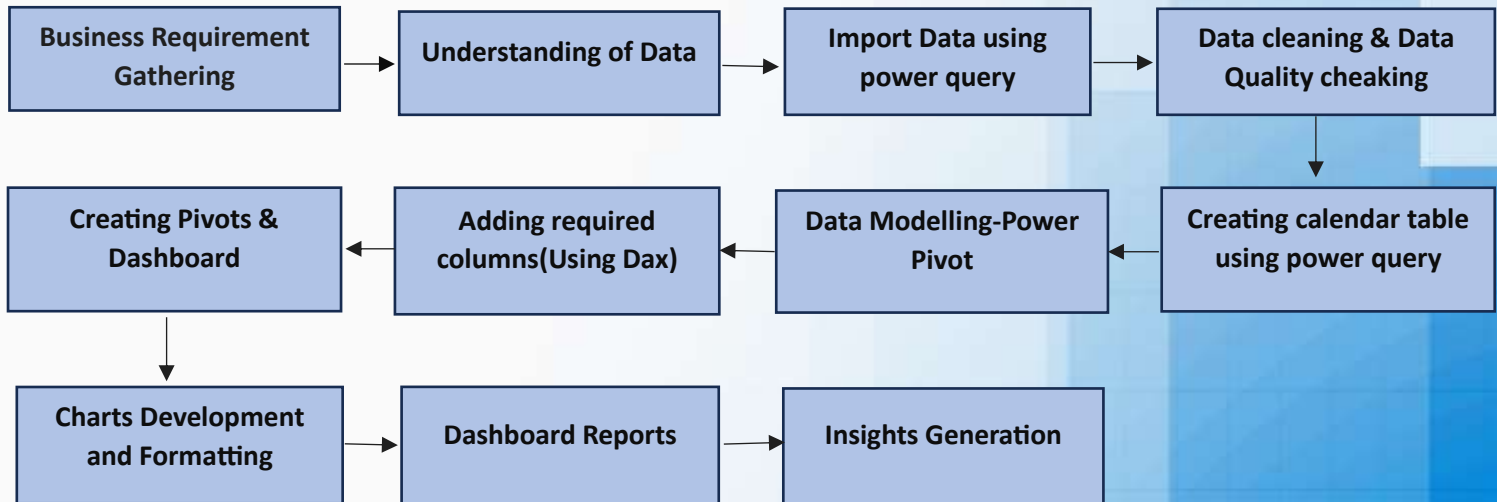# Hospital Emergency Room Analysis

Saving lives, one second at a time..

PURPOSE OF PROJECT :

We need to create a Hospital Emergency Room Analysis Dashboard to improve efficiency and provide useful insights. This dashboard will help stakeholders to monitor, analyze and make better decisions for managing patients and improving services.

Project Steps :

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┌─────────────────────┐      ┌─────────────────────┐      ┌─────────────────────┐      ┌─────────────────────┐
│ Business Requirement│─────▶│ Understanding of Data│────▶│  Import Data using  │────▶│ Data cleaning & Data│
│      Gathering      │      │                     │      │    power query      │      │   Quality cheaking  │
└─────────────────────┘      └─────────────────────┘      └─────────────────────┘      └─────────────────────┘
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┌─────────────────────┐      ┌─────────────────────┐      ┌─────────────────────┐      ┌─────────────────────┐
│  Creating Pivots &  │◀─────│  Adding required    │◀────│ Data Modelling-Power│◀────│Creating calendar table│
│     Dashboard       │      │ columns(Using Dax)  │      │       Pivot         │      │  using power query  │
└─────────────────────┘      └─────────────────────┘      └─────────────────────┘      └─────────────────────┘
          │
          ▼
┌─────────────────────┐      ┌─────────────────────┐      ┌─────────────────────┐
│ Charts Development  │─────▶│  Dashboard Reports  │────▶│ Insights Generation │
│   and Formatting    │      │                     │      │                     │
└─────────────────────┘      └─────────────────────┘      └─────────────────────┘
```

Charts to Create :

- **Patient Admission Status** : Show how many patients were admitted vs. not admitted.
- **Patient Age Distribution** : Group patients by age.
- **Timeliness** : Measure the percentage of patients seen within 30 minutes.
- **Gender Analysis** : Display the number of patients by gender.
- **Department Referrals** : Cheak which departments patients are referred to the most.