

Autonomous checkout system

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What ?

- ▶ Self-checkout System
- ▶ Track of buyers and items they pick up
- ▶ Detection and classifying the products customers picked
- ▶ Finally generate a bill for each customer once they reach checkout point

Why ?

- ▶ Self-checkout System
- ▶ Minimize the Shoplifting
- ▶ Products Record
- ▶ Products Tracking
- ▶ Human Activity Recognition and Tracking
- ▶ Save the time for both Retailers and shoppers
- ▶ Cashier less system

How ?

- ▶ Multiple CCTV camera's
- ▶ Store the images and frames
- ▶ Human Detection and Tracking
- ▶ Product detection that customer picked up
- ▶ Classify the products
- ▶ Track the Products, customer picked up
- ▶ Generate the bill

Methodology

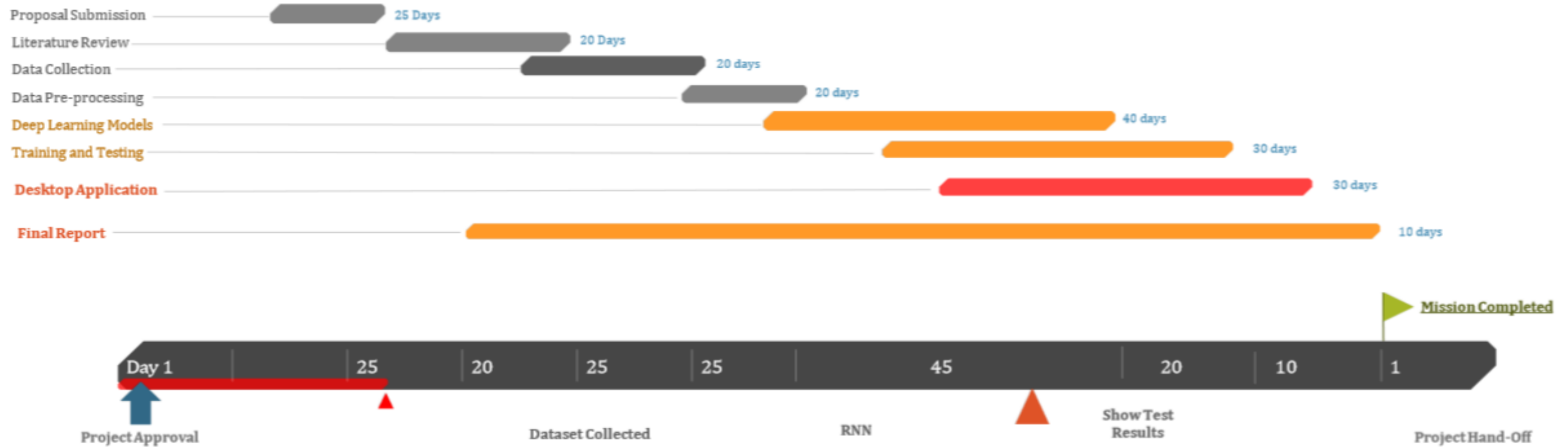
- ▶ Literature Review
- ▶ Data Collection ()
- ▶ Data Pre-processing
- ▶ Deep Learning Models
- ▶ Training and Testing
- ▶ Desktop Application

Technology / Tools

- ▶ Python 3.*
- ▶ Tensor flow
- ▶ Keres
- ▶ Anaconda (Spyder or Jupyter notebook)
- ▶ Database (MySQL, SQLite etc.)
- ▶ React JS (For frontend)
- ▶ Node JS (For Backend)

When ?

Autonomous Checkout



The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

Thank you

Any Question ?