**Automatic age verification for the purchase of restricted products like alcohol**

Team Name: ***POSTeminent***

Retail Store checkouts have been evolving for years. One such practice is cashier less store technology. Walmart has introduced cashier less stores with convenient self-checkout options which benefit both customers and business. But the problem with checking out some of the restricted products like alcohol is not well addressed as it needs an explicit age verification thereby reducing productivity.

The question is, can we confirm the age of an individual by building a prototype model which validates the identity and age group of customers without human intervention?

We try to address this problem by proposing a solution wherein we consider valid identity proof like Driver’s license/state id and verify the age through Date-of-birth field on ID thereby speeding up the process and increasing productivity.

The solution’s unique selling points include:

* + - Secure way of validation and legally compliant.
    - Usage of fast, reliable and efficient age verification techniques.

The tech stack utilizes Web Framework-Flask, Python language, Azure AI services and Databases, Bootstrap.

This can further be developed as cloud powered solution in stores utilizing cloud-based AI and scalable storage mechanisms.

Walmart can save money and can address the above-mentioned challenges by speeding up checkout times and automatic validation. This model can be advantageous as it saves time through shorter queues, adds value to business, improves in-store productivity, increases customer satisfaction.

Future RoadMap:

* + Identifying a way to address fraudulent activities with fake IDs.
  + Enabling touchless verification through QR code.
  + Expanding the solution to pharmacy department with additional safeguards, HIPAA compliance.

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