



AI - DRIVEN CRIMINAL SUSPECT IDENTIFICATION AND SKETCH
GENERATION

UNDERGRADUATE THESIS
Submitted as one of the requirements to obtain
Sarjana Komputer (S.Kom.)

By:

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ABSTRACT

The "AI-Driven Criminal Suspect Identification and Sketch Generation" initiative intends to improve criminal investigations by assisting in the identification of suspects and the creation of sketches. The initiative identified issues that INAFIS investigators face, such as taking too long to find suspects and solve cases because the sketches they create are inaccurate. The investigation focused on ethical and legal considerations, as well as how to ensure that AI employed in criminal identification is fair and secure.

The new technologies will enable INAFIS professionals to collaborate more efficiently and correctly when identifying suspects. These tools include automatic sketch creation, 3D modeling, and real-time collaboration. The chosen solution, Alternative 3 - AI-powered Criminal Suspect Identification and Sketch Generation, aligns with the project's goal of making criminal identification easier. Examples demonstrate how the AI system integrates well with the way investigators now work. It gives them a useful tool for their tasks.

Estimating the time and resources needed for a project, including people, machines, tools, and costs, is a careful plan. It will take four months to do all the planning, research, creating, testing, making changes, and finishing the project. In short, the project thinks about the rules and laws, as well as how things work, and has a clear plan to make criminal investigations better and solve cases faster. It could change how we do things.

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