

# AI Based Drone for Agriculture Application

Aarti Bakshi<sup>1</sup>, Mayur Malaye<sup>2</sup>, Saurabh Patade<sup>3</sup>, Raj Joshi<sup>4</sup>

Faculty, Department of Electronics and Telecommunication<sup>1</sup>

Students, Department of Electronics and Telecommunication<sup>2,3,4</sup>

KC College of Engineering, Thane, India

**Abstract:** *Quadcopter are drone also known as unmanned aerial vehicles that can be controlled remotely, Quadcopters have uses in various fields. The components required in building the quadcopter are its frame, Pixhawk light controller, Brushless Dc motors, Propellers, High definition (HD) camera, Global Positioning System, Telemetry module. Aerial security means performing security-aimed monitoring and surveillance operations with the help of airborne vehicles. These kinds of activities suggest that humans officers (security organizations, law enforcement, police etc.) would be able to remotely monitor and view video and data acquired from drones while planning and evaluating their operations. The spectrum of applications where drones are used for security purposes in vast: scouting and reporting emergencies, monitoring accidents and crimes, surveillance of a certain landscape area, operating in highly busy and pedestrians as well as their tracking from up in the sky, and so on. The project will serve as a bridge to connect actual happening in areas that cannot be navigated easily by security personnel of corporate institution as the drone will be used to hover and record and analyses the event as they streams in, also due to its capability of flying over different altitudes the drone can generally be used on areas with rugged terrains or over water bodies for a time dependent on its power capacity*

**Keywords:** Drone, Unmanned Aerial Vehicle, Agricultural use

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