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Introduction

The Taj Mahal was commissioned by the Mughal Emperor Shah Jahan in 1632 as a mausoleum for his beloved wife, Mumtaz Mahal, who passed away during childbirth. It took over 20,000 skilled artisans and labourers, along with the expertise of renowned architects, to bring the emperor's vision to life. The construction of the Taj Mahal spanned

Methodology and it stands as a tribute to eternal love and the **Architectural design** of the Mughal era [1].

The Taj Mahal's architectural style seamlessly blends elements from Pof the Taj Mahal's most striking features. It is adorned with intricate carvings, delicate marble inlays, and calligraphy from the Quran, all skilfully executed by master craftsmen. The dome is topped by a gilded nial, which adds to the monument's majestic presence [2,3].

Gardens and layout

The Taj Mahal is not just a mausoleum but also a meticulously planned complex that includes beautifully landscaped gardens and other structures. The gardens, known as the Charbagh, are laid out in the Persian style and are divided into four equal quadrants, symbolizing the four rivers of paradise. The gardens feature geometric patterns,

Ornamental details carefully placed trees and flowers, adding to the serene and tranquil atmosphere surrounding the monument.

The Taj Mahal is renowned for its intricate ornamentation and decorative elements. The marble façade is embellished with delicate oral patterns, arabesques, and inscriptions from the Quran. The inlay work, known as pieta dura, is a technique where semiprecious stones such as jasper and lapis lazuli are meticulously carved and inlaid into

Symmetry and optical illusions motifs, calligraphy, and geometric designs [4]. One of the most remarkable aspects of the Taj Mahal's architecture

is its perfect symmetry. The entire structure is precisely mirrored along a central axis, creating a sense of balance and harmony. The architects employed various optical illusions to enhance the visual impact of the monument. The minarets, for instance, are slightly tilted outward to create an illusion of standing upright when viewed from a distance, counteracting the effects of perspective. The Taj Mahal stands as an architectural masterpiece, blending cultural influences, breath-taking beauty, and meticulous craftsmanship. Its timeless elegance and profound symbolism have earned it a place among the wonders of the world. As visitors stand in awe before its majestic façade or stroll through its serene gardens, the Taj Mahal continues to evoke a sense of wonder and admiration, reminding us of the enduring power of love and the boundless potential of human creativity.

The Taj Mahal, an iconic monument located in Agra, India, stands as a testament to the rich architectural heritage of the Mughal Empire.

Symmetry and balance Renowned for its breath-taking beauty and intricate design, the Taj Mahal is considered one of the world's most captivating architectural masterpieces. Built by the Mughal Emperor Shah Jahan in the 17th century, this mausoleum represents a fusion of various architectural styles, showcasing the Mughals' artistic brilliance and cultural equilibrium. The symmetrical arrangement of the central dome and minarets, positioned at each corner, provides a sense of harmony and balance. The intricate carvings and calligraphic inscriptions, reflecting the Mughal architectural style, create a visually pleasing and balanced composition. In this article, we delve into the architectural elements that make the Taj Mahal a timeless marvel.

*Corresponding author:

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