Geodesic Dome

A geodesic dome is a spherical or nearly spherical shell structure composed of tetrahedra or other geometric shapes. The shape of a geodesic dome is derived from the combination of geodesic lines, which are the shortest paths between two points on a sphere. This design allows for efficient use of materials and provides structural integrity with minimal support. Geodesic domes are often used in architecture for their unique aesthetic and functional properties.
A geodesic dome is a spherical or partial-spherical shell structure or lattice shell based on a network of great circles (geodesics) on the surface of a sphere. The geodesics intersect to form triangular elements that have local triangular rigidity and also distribute the stress across the structure. When completed to form a half sphere, it is a geodesic dome.