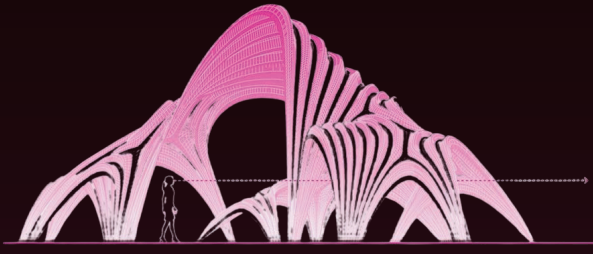


ARCHITECTURAL DESIGN

concept deveolpment&sketches

CONCEPT: FLUID ORGANIC SHELL

The design is inspired by organic growth patterns and fluid geometries found in nature, such as coral formations and soft tissue structures. The form evolves through a parametric approach, where repeated arches merge and transform into a continuous flowing shell.



THE DESIGN EMPHASIZES:

Smooth transitions between elements
Perforated surfaces for light and ventilation
A sense of movement and dynamism

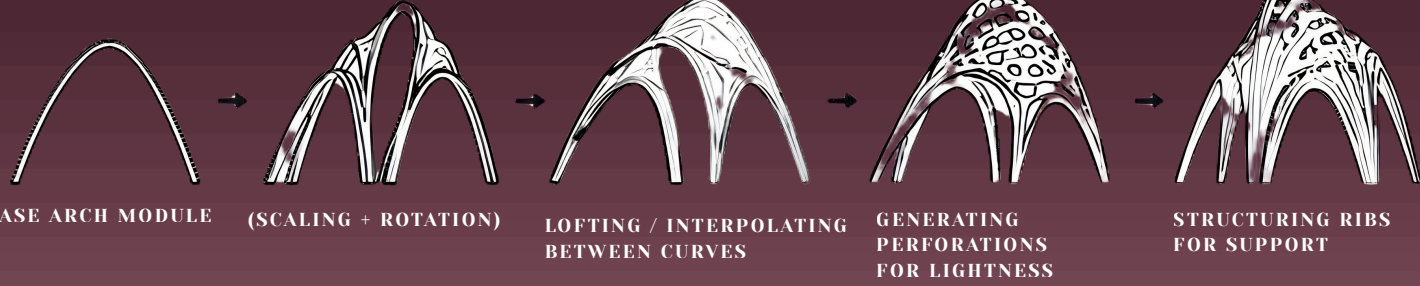


The overall composition reflects harmony between structure and form, creating a visually lightweight yet structurally expressive pavilion.



DESIGN INTENT:

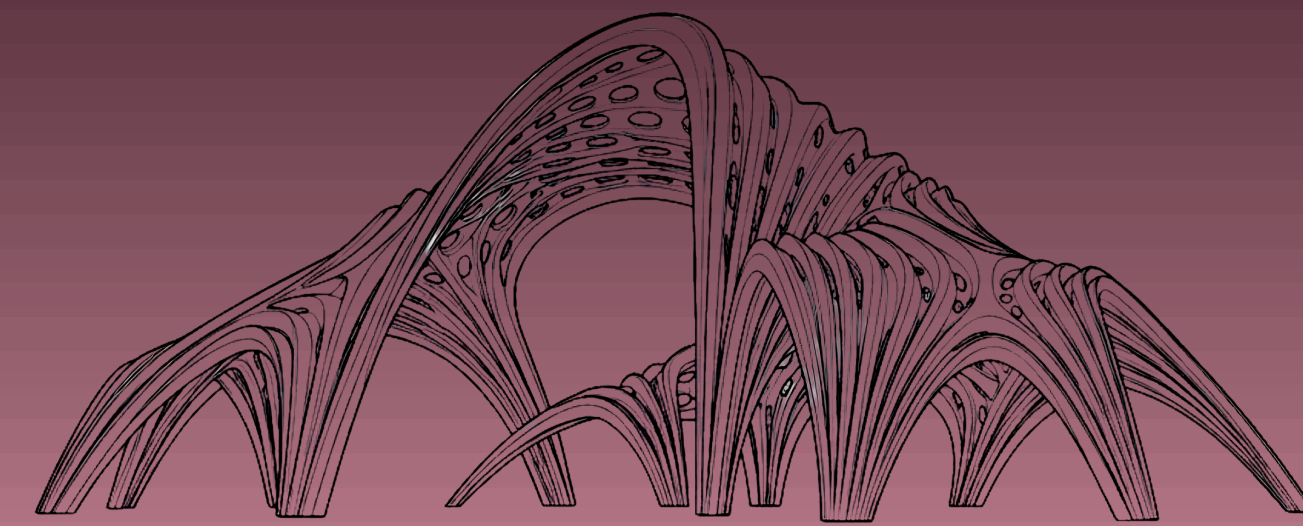
To create an immersive architectural experience that blends structure, light, and organic flow into a unified spatial form.



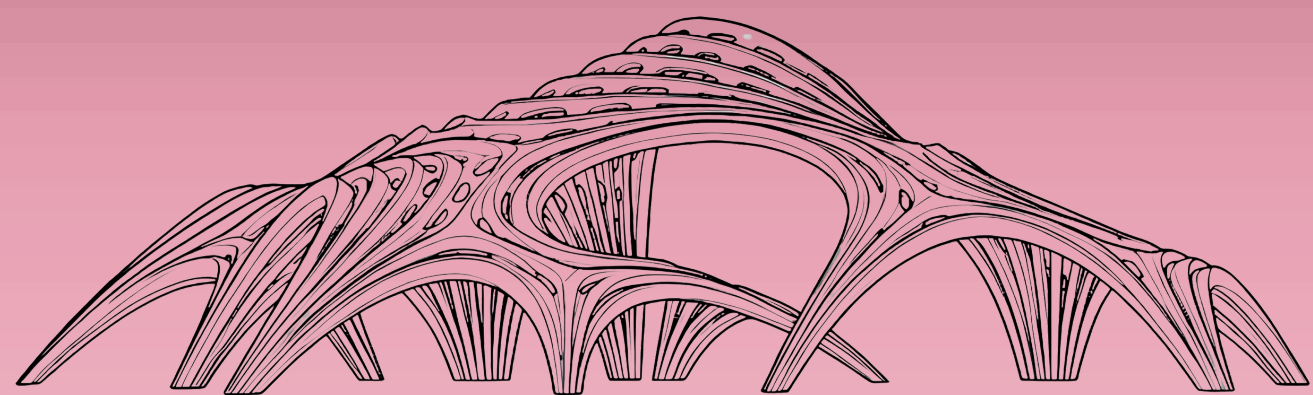
2D VIEWS



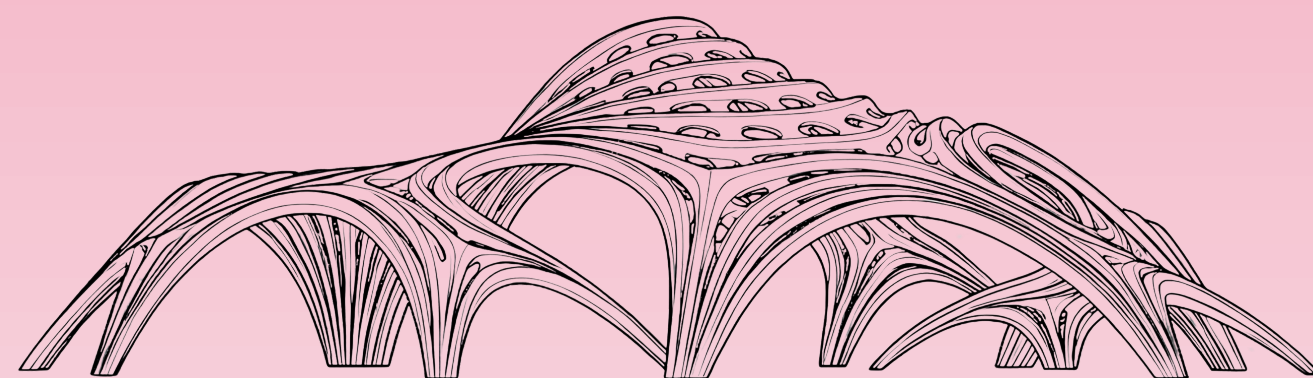
TOP view



FRONT elevation

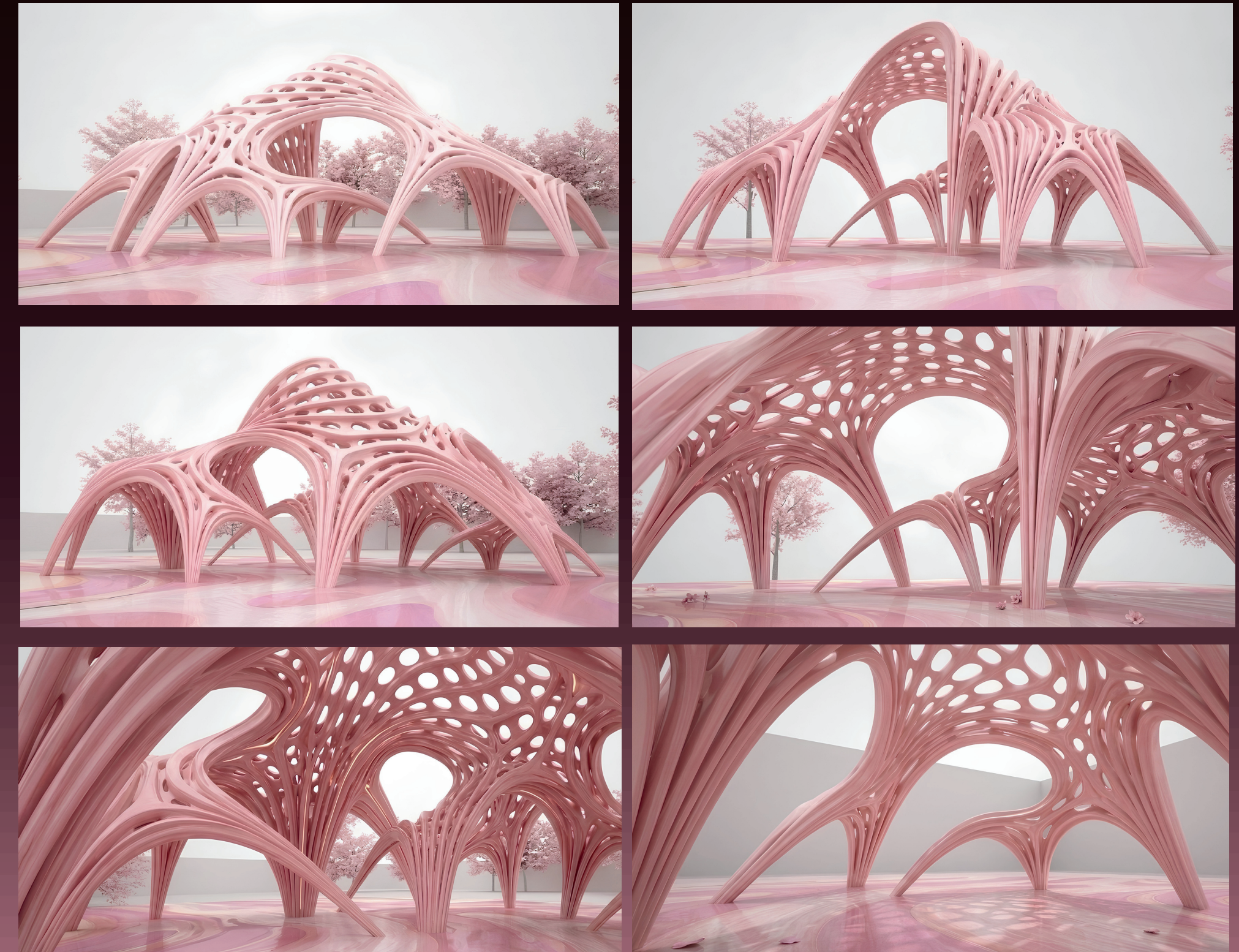


LEFT side elevation



RIGHT side elevation

3D SHOTS



MAQUETTE SHOTS

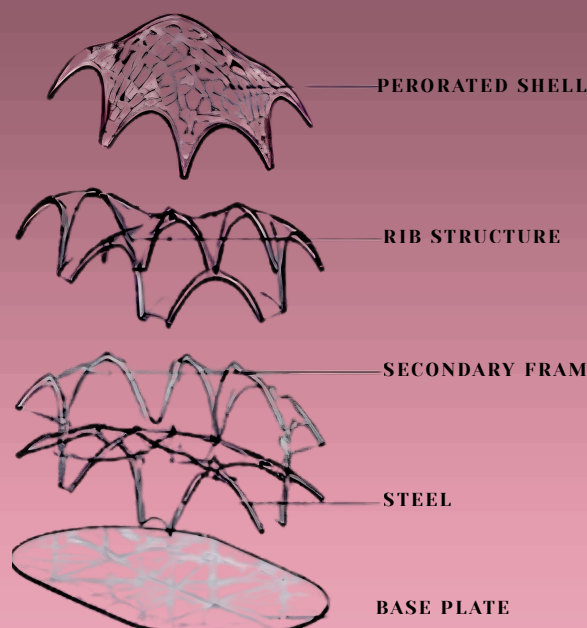


construction method

The project is developed using parametric design techniques, where a single module is repeated, scaled, and morphed to generate the full structure.

STEPS:

- Creating a base arch module
- Applying transformation (scaling + rotation)
- Lofting/interpolating between curves to create surfaces
- Generating perforations for lightness
- Structuring ribs for support



EXECUTION (REAL-LIFE):

- Fabrication using CNC cutting or 3D printing
- Assembly through interlocking ribs or layered sections
- Hidden structural frame to support the flowing shell



materials

maquette materials



3D PRINTED PLA (for complex joints)

suggested real materilas



FIBER REINFORCED PLASTIC (FRP) for smooth organic finish



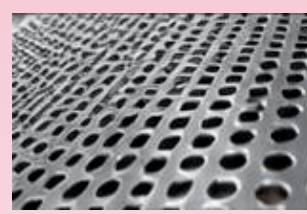
STEEL FRAME (hidden) structural support



ALUMINUM PANELS lightweight outer skin



GLASS FIBER / RESIN COMPOSITE for complex curves



PERFORATED METAL PANELS enhance light & shadow effect

color palette

