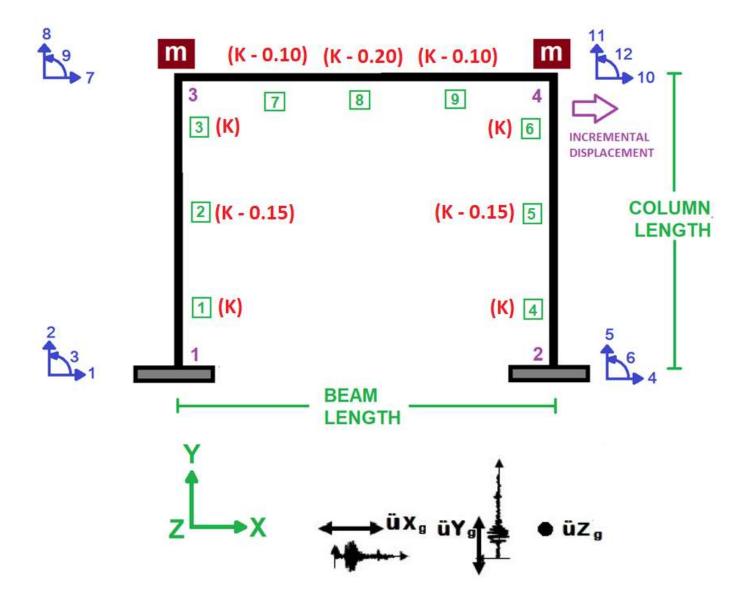
IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL

## **COMPARATIVE STUDY OF ELASTIC AND INELASTIC** STRUCTURAL BEHAVIOR THROUGH PUSHOVER DYNAMIC ANALYSIS USING **OPENSEES**

WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)





## CORE AND COVER CONCRETE RELATION



## WITHOUT HARDENING AND ULTIMATE STRAIN



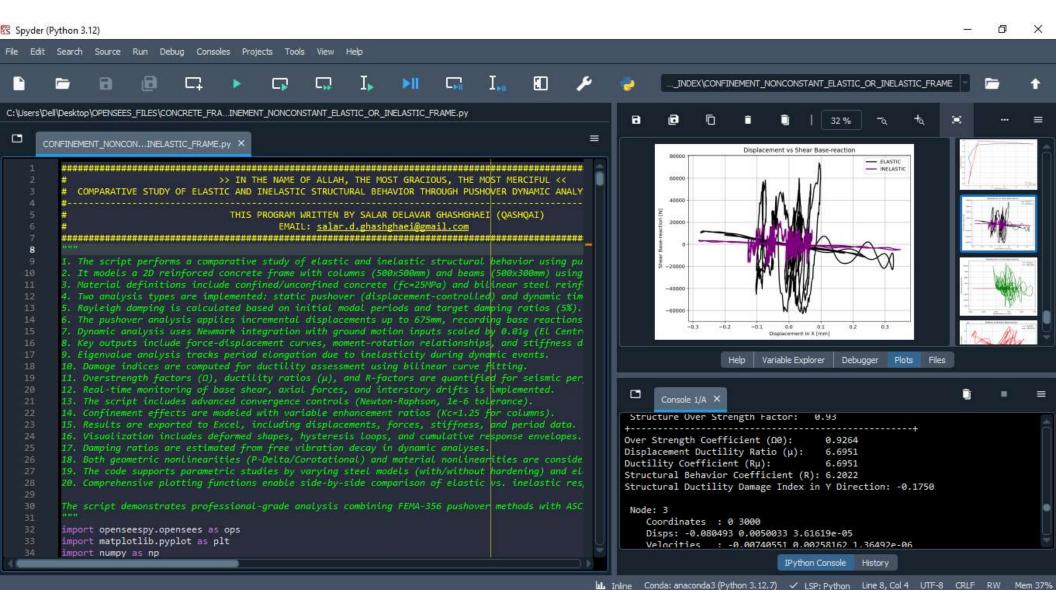
WITH HARDENING AND ULTIMATE STRAIN



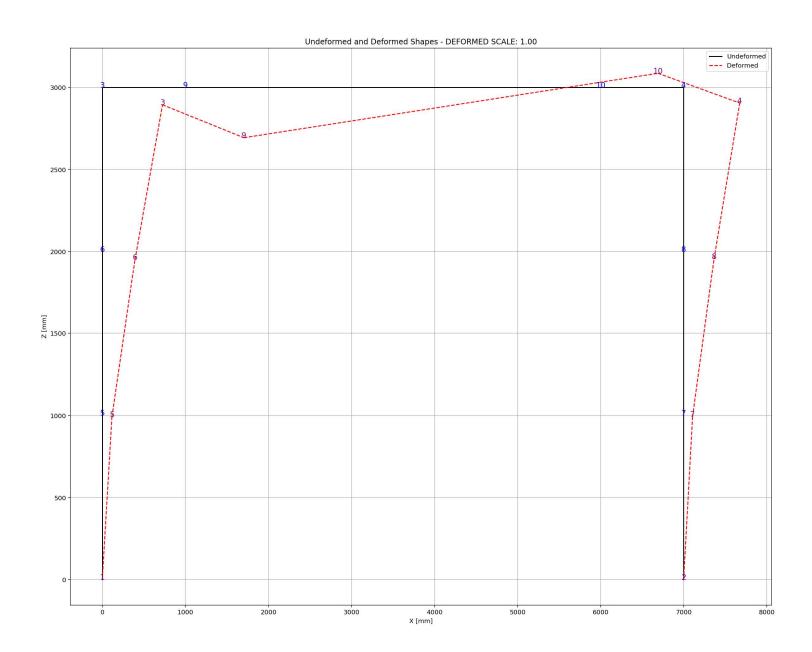
## **COLUMN SECTION**

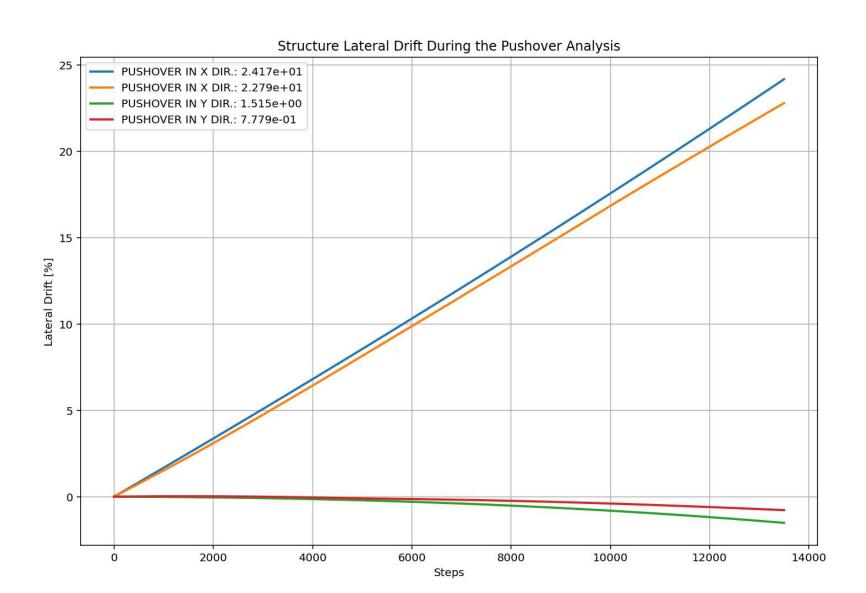


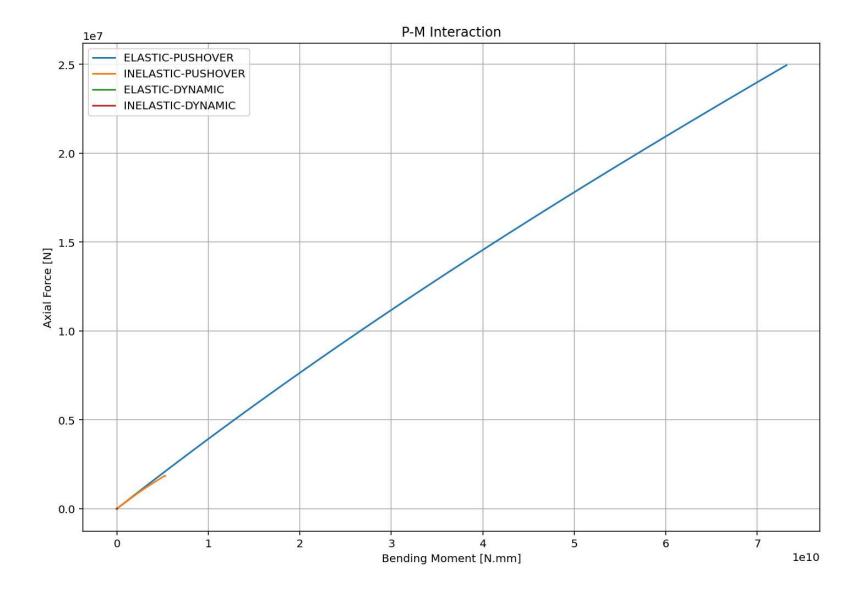
**BEAM SECTION** 

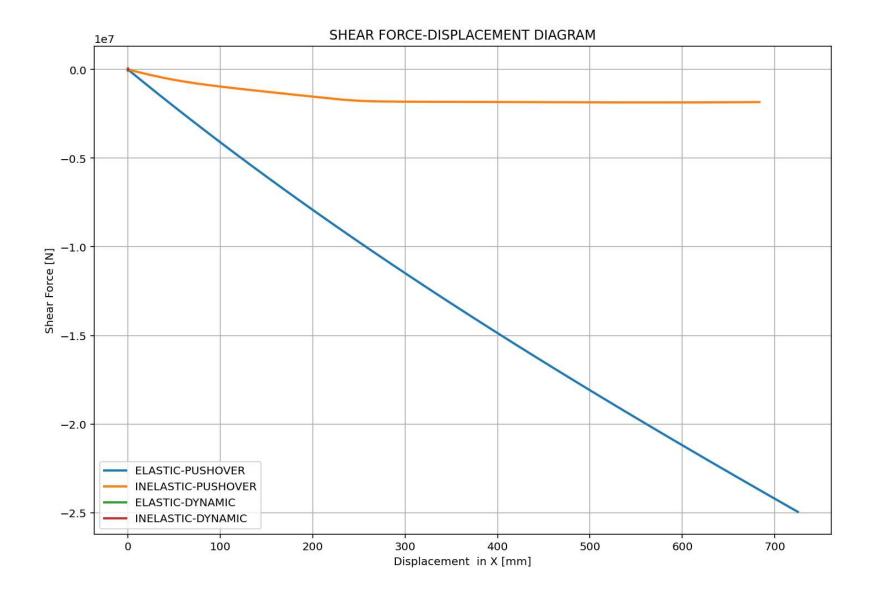


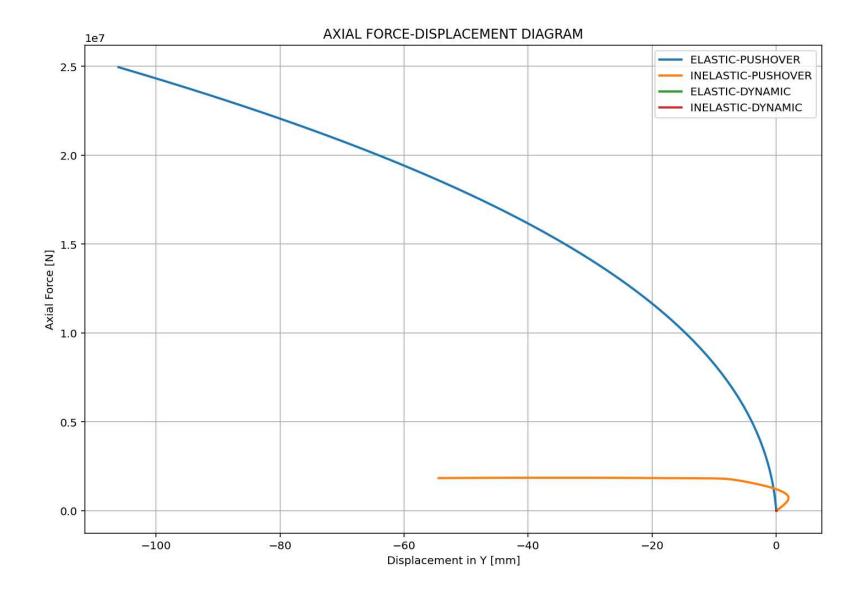
# ELASTIC AND INELASTIC STATIC ANALYSIS (PUSHOVER)

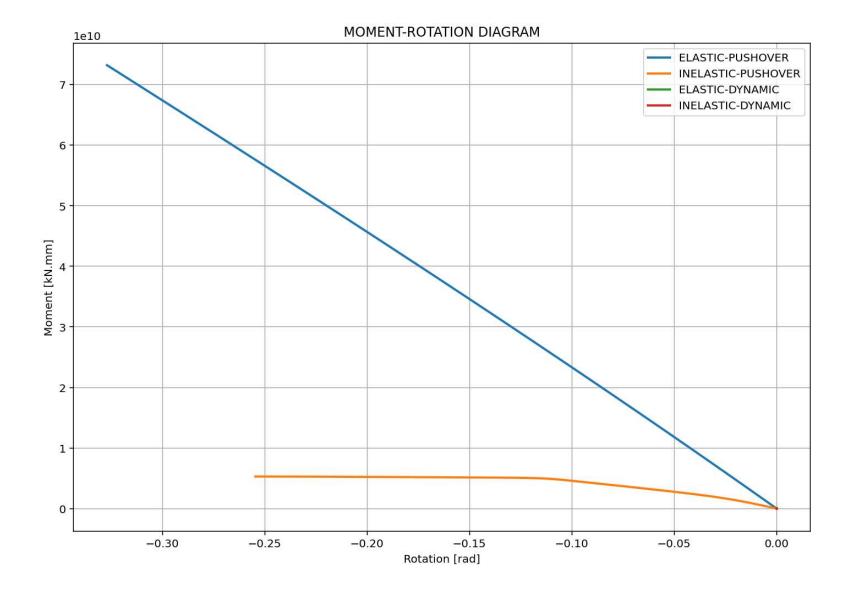




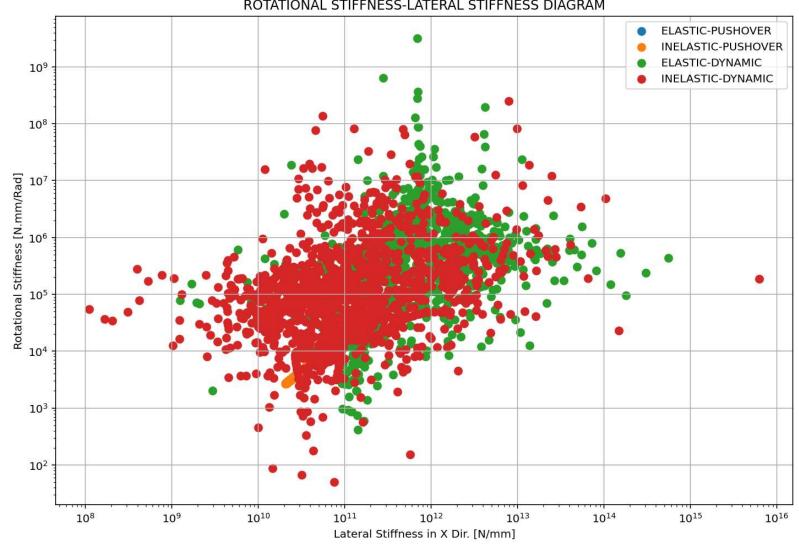




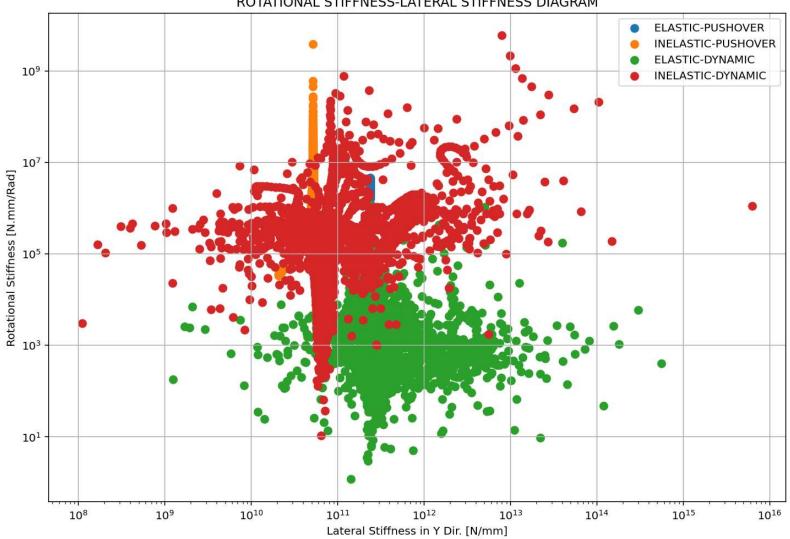


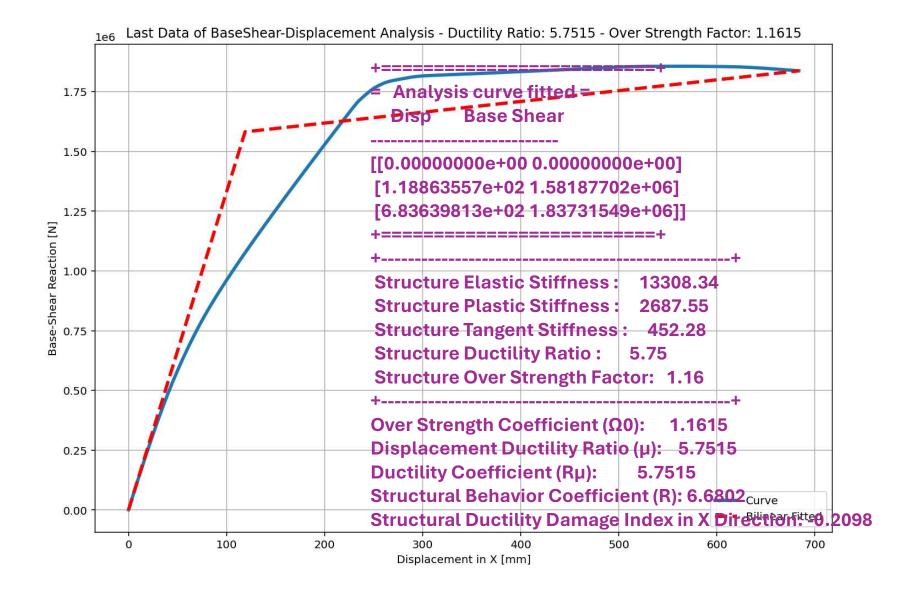


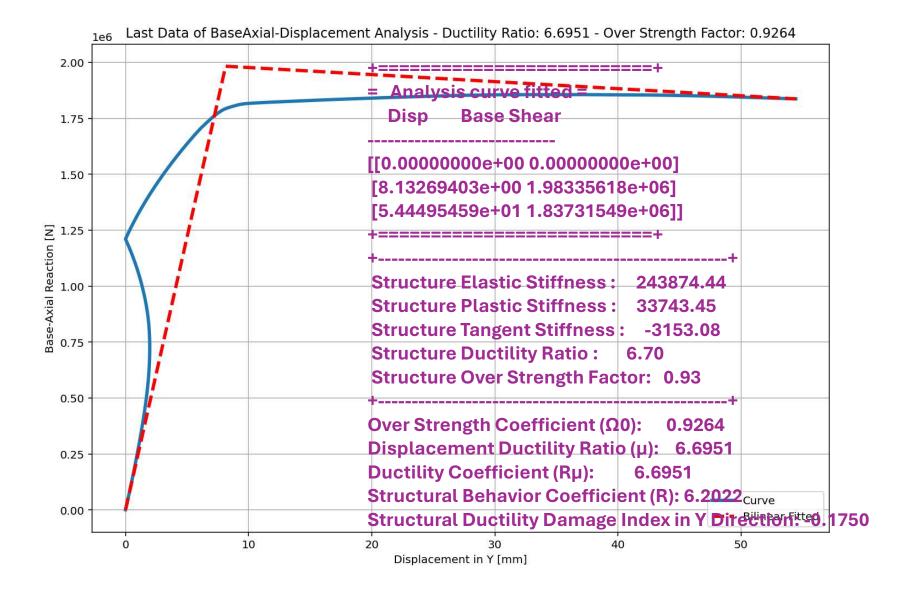
## ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM



## ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM







## ELASTIC AND INELASTIC DYNAMIC ANALYSIS



