I am a third year B Tech undergraduate from Civil Engineering Department of IIT Bhubaneswar. I want to explore my carrier in Structural Engineering. My area of interest includes, Structural Analysis and Design, by Solid-Mechanics, Fluid-Mechanics, applications.

Probability, Statistics and Stochastic Process, is my exposure, as a part of the academic-curriculum of our college, and subsequently, I developed deeper interest, in the subject. I look forward, to learn, concepts of probabilistic and non-probabilistic uncertainty-models, based on structural safety analysis, through this internship. I also did a presentation on Earthquake-Resistance and its importance in Structural engineering, as a part of Project-Seminar course, of our college, and learnt concepts like Structural-Reliability during Earthquake, Capacity-based Estimation and Seismic-design methods. I persistently follow several articles, projects that are available in ResearchGate or ScienceDirect. I learnt programming, like, Python, MINITAB, Auto-CAD, MATLAB, and also coded, Fluid-mechanics problems like optimum configuration of pipe-networking for minimum Power-input by MATLAB simulations.

Currently, I aim to work, in the area of uncertainty Modelling and Computational Stochastic Algorithms like Monte-Carlo simulations, and learn its real time uses. I had attended ‘Lectures of ISET Webinar-Series’, by IIT Roorkee, so I know, emerging research-areas like Earthquake early-warning, Risk-factor determination and Damping-energy dissipation.

I would like to work on Advanced Structural-engineering and learn its mathematical, probabilistic approach, thereby, I can design some solutions to earthquake-mitigation, once this internship ends. It will be my pleasure, if I could learn how different Control-Systems and Network-Models of Sensors, use Data-analysis for magnitude estimation of several Parameters, in Earthquake engineering.