

# Shannon Sampling Theorem

Ankush Kumar Garg\*

Abstract

We will see a proof of the renowned Shannon sampling theorem. Sampling is the process of converting a continuous signal to discrete samples for easier processing and storage. Reconstruction, on the other hand, aims to reconstruct the original continuous signal from its discontinuous samples.

---

\*Institute Postdoc Fellow, Department of Mathematics and Statistics, IIT Kanpur, Uttar Pradesh India-208016.