De-Noising of Audio Signal

Digital Signal & Processing:

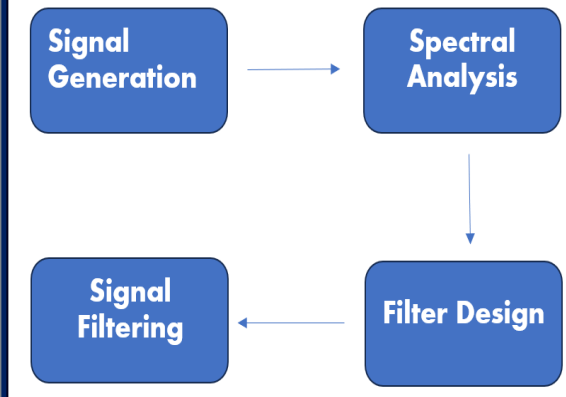
SOR: Dr Muhammad Majid

University of Engineering & Technology ,Taxila

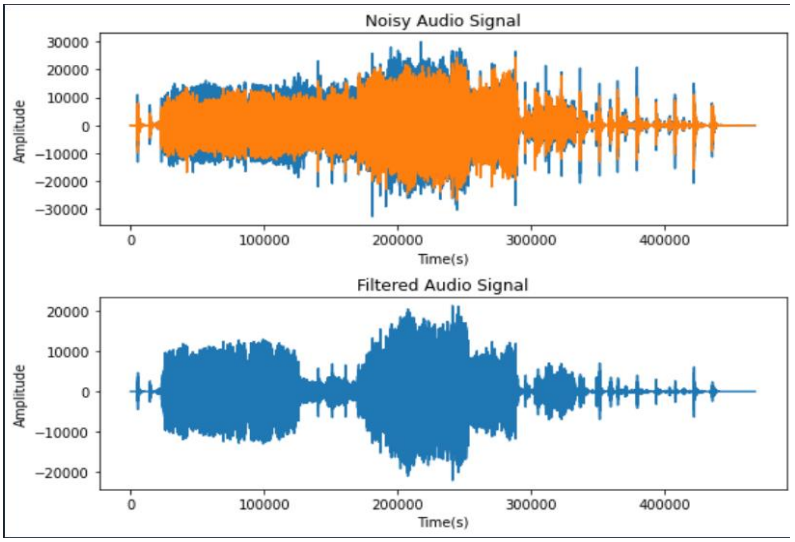
INTRODUCTION

The problem addressed by this project is the presence of unwanted noise in audio recordings. This noise can be introduced during recording due to various factors such as background chatter, electronic interference, or environmental sounds. The goal is to develop a method that can effectively identify and remove this noise, leaving behind a cleaner version of the original audio.

METHODOLOGY



RESULTS



CONCLUSION

This project implements a bandpass filter on an audio signal, aiming to remove noise outside specified frequency ranges. It successfully processes the input audio, generating a filtered output file. The plotted graphs visually represent the noisy and filtered audio signals, demonstrating the filtering effect.

MEMBERS:

21-CP-54 21-CP-70 21-CP-80

For getting more details: Please visit

Kumar, E. Sudheer, et al. "Noise Reduction in Audio File Using Spectral Gatting and FFT by Python Modules." (2023).