



भारतीय प्रौद्योगिकी संस्थान मुंबई
पवई, मुंबई-400 076, भारत

Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

Narayan Rangaraj
Professor
Industrial Engineering & Operations Research

Phone : (+91-22) 2576 7501
Email : narayan.rangaraj@iitb.ac.in
URL : <http://www.ieor.iitb.ac.in/~narayan>

IIT Bombay

Letter of appreciation for Aarush Garg

I am pleased to record my appreciation for the efforts and involvement of Aarush Garg during his brief visit to our group during December 2023 – January 2024. Among other things, in our group, we work with public transport agencies such as Delhi Metro Corporation and the suburban rail system operated by Indian Railways in Mumbai. We work on various operational issues such as timetabling and crew planning.

During his visit, Aarush learnt and contributed to the efforts in the area of Periodic Scheduling, which is one of the ways of representing a regularly scheduled set of services in a structured manner. PESP (Periodic Event Scheduling Problem) has emerged as a class of problems under mathematical programming, specifically integer programming models, which is quite versatile and also challenging. Aarush was able to pick up the modeling nuances and also some of the mathematical structure to these problems and contributed to the discussions with some master's and other students who were working on these problems. He is certainly capable of independent thought.

I have a very good opinion of Aarush's keenness to understand and work on different areas, including problems of general significance that require a rigorous understanding of the situation. I think this will serve him in good stead in his education and career. He is already a talented youngster judging from his educational background and previous efforts in a variety of activities and I can see him progressing very well in the years to come.

Overall, it was a very nice experience to host Aarush a few months ago, and I wish him all the best in his future career.

Narayan Rangaraj
Professor, Industrial Engineering and Operations Research
IIT Bombay
narayan.rangaraj@iitb.ac.in