

EcoRide: Car Sharing Platform for Efficient and Affordable Commuting

Tejas Kuwar¹, Sujal Jadhav², Sahil Medhane³, Nidhi Kalanke⁴, Dr. Priyanka Kadam⁵

Department of Computer Engineering^{1,2,3,4}

Smt. Kashibai Navale College of Engineering, Pune, Maharashtra, India

Savitribai Phule Pune University, Pune, India

Abstract: *The present paper represents an in-depth review of several studies concerned with multifold aspects of ridesharing. These show advantages of ride sharing, starting with economic savings and efficiency in decongesting traffic, to reducing pollution by transforming the urban transportation system and fostering sustainable development. Logistic and social hindrances of carpooling are also discussed, proposing solutions. Thirdly, technological and design developments in carpooling are sampled, from dedicated lanes to sophisticated matching algorithms, reflecting the speed of innovation within this field. All these studies combine in varied dimensions of carpooling in different perspectives, emphasizing its transforming impact and adaptability for solving urban transportation challenges. This study, therefore, has been a critical review of the current researches on the concept of ride sharing*

Keywords: Carpooling, Urban Sustainability, Reduction of Traffic, Ride-sharing, Fuel Efficiency