Karigar: A Digital Bridge Between Construction Workers and Contractors in India Using Cloud-Based Web Technologies

Vikas Kumar[1], Deepak[2], Yogesh[3] , Saumya , Vipul , Sachin
Department of Computer Science
Dronacharya College of Engineering, Gurgaon
Corresponding author: vikaskumar@example.ac.in

Abstract: *The construction industry in India employs a significant portion of the labor force, yet it remains plagued by inefficiencies in connecting workers with employment opportunities and government schemes. Despite being critical to infrastructure development, construction workers in India often face challenges such as inconsistent work, lack of access to benefits, and exploitation. This paper introduces Karigar, a digital platform designed to address these issues by leveraging cloud- based web technologies. The platform, developed using HTML, CSS, JavaScript, Node.js, and MySQL, connects construction workers with contractors and facilitates access to government welfare programs. Additionally, the platform utilizes AWS services such as S3, Lambda, and RDS to provide a scalable, secure, and efficient solution. This research explores the technical architecture, features, implementation strategy, and the potential socio-economic impact of Karigar on the construction industry and its workforce in India*

Keywords: Construction, Digital Platform, Web Application, AWS, Employment, Socioeconomic Development, India.