

Win- Dhan – An Opinion- Trading Website

Om Shirke, Krishnakant Tiwari, Tanmay Bugge, Durgesh Patil, Dr. Vilas Joshi

Department of Computer Engineering
ISB&M College of Engineering, Nande, Pune, India

Abstract: *In centivised opinion- trading platforms also known as prediction markets enable users to stake value on discrete future events and receive proportional rewards once outcomes are resolved. **Win- Dhan** is an online opinion- trading website designed for the Indian market, combining on-chain wallet settlement with an off- chain real- time odds engine to deliver transparent, low- latency wagering. This paper presents (i) a consolidated literature review of prediction- market theory, blockchain- based betting, and Indian regulatory frameworks; (ii) a detailed problem statement highlighting trust, liquidity and compliance challenges; (iii) system architecture featuring a hybrid Layer- 2 wallet bridge, Kafka- driven odds dissemination, and smart- contract custodial settlement; (iv) pilot- study results from 120 beta users; (v) cost, feasibility, and security analysis including GDPR & DPDP compliance; and (vi) future directions for AI- driven market making. The work demonstrates that Win- Dhan can achieve <150 ms quote latency, <1 % oracle error, and 99.97 % wallet- fund reconciliation accuracy while operating within India's evolving regulatory boundaries.*

Keywords: opinion trading, prediction markets, smart contracts, real- time odds, wallet integration, India online gaming regulation

