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Block Chain Based Income Traceabilty System for Equitable Welfare Distribution

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Academic Year
2025-26
July 18, 2025

OUTLINE

CYBER & NETWORK SECURITY

Block Chain Based Income Traceabilty System for Equitable Welfare Distribution

- Our Vision: To revolutionize welfare distribution in India by establishing a robust, transparent, and accurate income assessment system for daily wage and informal sector workers.
- Core Innovation: Leveraging the inherent security and immutability of Blockchain technology for verifiable income records, complemented by AI/ML for intelligent analysis.
- Driving Force: Addressing the critical societal challenge of misallocated welfare resources and ensuring benefits reach the truly deserving, fostering social and economic equity.

ABSTRACT

- India's informal sector struggles with inequitable welfare and unreliable income assessments due to fragmented methods like government surveys and banking data, resulting in false tax avoidance, inflated welfare claims, and social inequities.
- Our solution uses a private blockchain to create a verifiable digital wage history, providing a solid foundation for accurate income data.
- AI/ML models improve this by estimating income, determining dynamic welfare eligibility (BPL/APL) and offering real-time insights via a privacy-preserving dashboard for policymakers.
- Compared to traditional methods, our system enhances accuracy, adaptability, and fairness in welfare delivery.
- Accurate income traceability ensures proper income tax calculation for individuals, promoting fairness and accountability across the entire workforce, not just the formal sector.

CONCLUSION

- **Technical Benefits**
  - Transparency
  - Decentralization
  - Real-time Tracking
  - Automated Verification
  - Interoperability
  - Scalability
- **Social Benefits**
  - Targeted Welfare Distribution
  - Empowerment of Informal Workers
  - Corruption Reduction
  - Inclusivity
  - Improved Policy-making
- **Ethical Benefits**
  - Equity and Fairness
  - Data Privacy
  - Social Justice
  - Trust Building
  - Prevention of Exploitation

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