Please provide the following information to be shared with the capstone information exchange platform:

1. **Project number:**
   21

2. **Project title (as will appear on the poster):**
   SecuRyde: Blockchain Technology Applied to Autonomous Vehicles

3. **Team members:**
   Ravi Bhankharia
   Spencer Chang
   Sriram Gidugu
   Milap Shah
   Priyesh Shah

4. **Adviser(s) name(s):**
   Dr. Chris Marty
   Dr. Hana Godrich

5. **Up to 10 keywords that will help to classify the project:**
   - Blockchain Technology
   - Ride Sharing
   - Security
   - Solidity Smart Contracts
   - Ethereum Computer
   - Decentralized Computing
   - Autonomous Vehicles

6. **Project abstract (up to 200 words) to be shared with judges:**
   SecuRyde is an innovative application that leverages blockchain infrastructure to connect users to autonomous vehicles in the ride-sharing industry. It aims to provide users a safe and reliable method for travelling by utilizing blockchain technology’s decentralized architecture to avoid a central point of vulnerability. Consensus algorithms occur among nodes in this network, which are used to verify the identities involved in any transactions, including financial ones. Transactions are secured through a public ledger system that uses public/private key encryption within the network. Users can be guaranteed that vehicles being used for transportation are secure and can be securely paid for as well. The application uses Ethereum, a blockchain-based platform which allows code to be deployed onto it, commonly called smart contracts. SecuRyde uses a custom-built smart contract to allow users and autonomous vehicles to communicate with each other regarding updates, payments, and control of the vehicle, thereby revolutionizing the ride-sharing industry by introducing a smart, secure way to interact with autonomous vehicles.