CS 480 Project List

Group No	Name of Students	Project Title	Project Description
1	Joseph Black Austin Brown Gabriel Turak Piolo-Anjelo Pascual Joshua Smith	F1Tenth-Autonomous Race Car	Developing an Advanced Autonomous Vehicle for Multicar Racing: Navigational Precision, Speed Optimization, and Real-Time Responsiveness through Simulation-Driven Design and Sensor Integration
2	Ian Rudy Jacob Young Joseph Hauser Jordan Dennison	PICARD Frontend (PICARD-Group 1)	Designing a Responsive and Comprehensive Graphical User Interface for the PICARD Application to Facilitate Semi-Supervised Machine Learning Analysis of Large Datasets.
3	Conner Brag Jace Whetsell Saipavan Koyada Connor White	INDRA: Drone Hacking WiFi Interception	Enhancing Drone Cybersecurity Through the INDRA Project: Expanding WiFi Packet Interception Capabilities to Safeguard Against Emerging Threats in Drone Hacking.
4	Kevin Myers Samesh Desai Emma Kupec Greyson Weimer Omar Ndiaye Andrew Degarmo	Improving the PRT through Data Capture and Analysis	Analyzing the Efficiency and Limitations of West Virginia University's Personal Rapid Transit (PRT) System, a critical examination of daily student commutes and system performance.
5	Justin Heimes Dylan Caldwell Luke Pupilli Jacob Comer Matthew Howe	PICARD-Group 2	Empowering Education with Distributed Machine Learning via the PICARD Project's Scalable Deployment Strategy and Algorithmic Integration

6	Kiara Neira Sierra Jackson Tanner Mann Aidan Koon	LiDAR Activity Recognition and Fall Detection	LiDAR-Based Fall Detection System with Automatic Emergency Assistance and User-Friendly Interface, Addressing Critical Limitations of Current Life Alert Systems while Prioritizing Affordability and Reliability.
7	Robert Coleman Juan Zacarias Glen Mauder Andrew Shephard Garrett Rhodes	GPTeacher	Transforming Education with GPTeacher, a Visionary Integration of Artificial Intelligence to Personalize Learning, Empower Educators, and Enhance Student Success
8	Claire Paalman Charles Mallonee	Application of Artificial Intelligence to Detect and Respond to Anomalies in Power Systems	Leveraging AI and Algorithmic Analysis to Detect and Prevent Non-Technical Losses and Infrastructure Damage, Enhancing Safety, Cost Efficiency, and Reliability in Power Distribution Networks.