

Graduation Project Ideas

Topic/Idea	Alg	ML	CV	HPC	HMI	GIS	MA
Augmented Reality in Education [projection augmented model]	X	X	X	X	X		x
Automated Planning and Scheduling	X	x					X
Automatic Number Plate Recognition	x	x	X	x			
Blockchain Applications [healthcare, finance, etc.]	X						x
Brain-Computer Interface (BCI)	x	X			X		
Camera-based 3D Scanner	x	x	X	x			X
Cross-platform Lightbot-like Game [with Egyptian theme]	x						X
Crowdsourcing-based Road Map Production [a real application]	x	X				X	X
Dashboard [you can get started here]	x	x			X		
Decision Support Systems (DSS)	X	X		X		x	
Digital Storyteller/Story Maker [you can get started here and here]					x		X
Eye Tracking	x	X	X	x	X		x
Indoor Positioning System	x	X				X	x
Iris Detection, Segmentation, and Recognition	x		X	x			x
Mobile Learning [especially for kids]					x		X
Multiagent-based Timetabler [you can get started here]	X	x					X
Piezoelectricity-based HMI [you can get started here]	x				X		X
RFID-based Crowd Management [a real application]	x	X				X	
Scratch Controlled Robot	X	x	x				X
Sharing Economy [ridesharing , home-sharing , etc.]	X					X	x
Smart Surveillance	x	x	X	x			x
Sound Recognition and Localization [a real application]	x	X		x	x		X
Spatial Data Mining (Data Mining on Spatial Data)	x	X		X		X	
Speech Recognition-based Quran Teacher [a real application]	X	X			X		x
Steganography	X		x				x
Text-to-Speech-based Quran Reciter [a real application]	X	X			X		x
Time Series Prediction [Weather, Stock Market, etc.]	X	x		X			
Vehicle Routing Problem	X			x			x
Virtual Robotic Competition [RoboCup, Battlecode, etc.]	X						

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