Class Diagram

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	Ро	int			
	- x: double - y: double - z: double - label: int				
	+ getX(string): double + getY(string): double + getZ(string): double + getLabel(): int + setX(double): void + setY(double): void + setZ(double): void + setLabel(int): void				
	class	sifier			
	+ train(string):void + predict(string): void + predict(double, double): void	ole,			
			¬ .		
NNClassifier	Dummy	/Classifier	-	KNNClassifier	
trToHead: ORIENTATION*					
NNClassifier() train(std::string): void predict(double, double, puble): void predict(std::string): void nearestNeighbour(ORIENTATION*): double getPtrToHead(): ORIENTATION*	+ train(std::string): vo + predict(double, dou double): void	+ DummyClassifier() + train(std::string): void + predict(double, double, double): void + predict(std::string): void		+ KNNClassifier() + train(std::string): void + predict(double, double, double): void + predict(std::string): void	
			J		

Data					
+ ReadFile(double&, double&, double&, std::string&, std::ifstream&): void					

Menu - input: std::string

- + getClassFromUser(bool): void + getCoordinatesFromUser(): void + getFileName(): void + cleanString(): void + getUserInput(): std::string + getNNClassifierInputFromUser(): void

testPhoneOrientation

+ test(std::string, NNClassifier&, ORIENTATION&): void