	Wydział Automatyki, Elektroniki i Informatyki **Katedra Grafiki, Wizji Komputerowej i Systemów Cyfrowych**			
Academc year			**Group**	**Section**
2021/2022	SSI	**BIAI**	**1**	
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Project card

Subject:

CRYPTOCURRENCIES PRICE PREDICTION in Python using neural network technologies

Main assumptions:

The project will be an application with a simple GUI or a web application.
The user will input data and get prediction, and past prediction rate.
Application: Software that predicts cryptocurrency exchangerates
Language: Python Technology: Dash/Plotly/ TensorFlow or PyTorch

I need to find appropriate databases and standardize them, i.e. the same currencies and data categories. Then create a neural network and teach it to predict the exchange rate (that is,whether it will increase or decrease on the next day) on the basis of data. Finally, upload the current exchange rates and connect them to the program and then check to what extent the exchange rate coincides with reality.

To do this project I will most probably use python because it is a universal language with lots of libraries and guides for them. I can use Dash framework[1]tocreate GUI/ web application and for example plotly to create charts, because I am already familiar with these technologiesandworking

Database:	**Every Cryptocurrency Daily Market Price**	[link]
	Deep neural networks for cryptocurrencies price prediction	[link]
Books/ Articles	**Introduction to Machine Learning with Python: A Guide for Data**	[link]
	Python Deep Learning: Exploring deep learning techniques, neural	[link]

	Date	**Mark:**
Assumptions		
Presentation		
Impl/ Research descr.		
Report		
Final mark:		