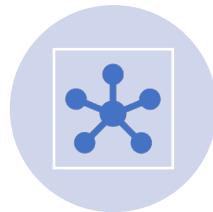
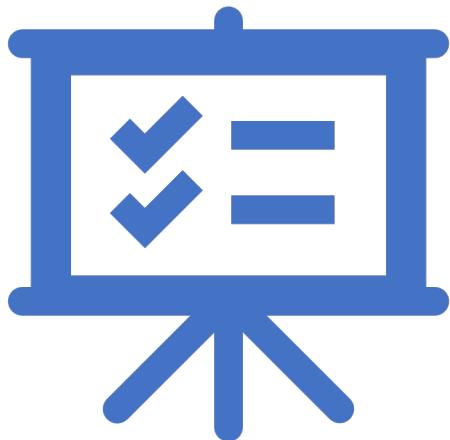


CS5056 Data Analytics

March 10, 2021

Class 5/16

Agenda



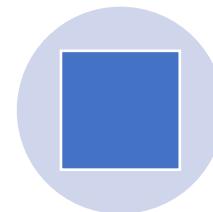
COMMENTS ON HWA3
AND FPA2



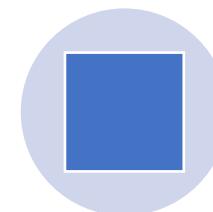
MODELLING
AND
EVALUATION



FITTING A
MATHEMATICAL
EQUATION TO DATA



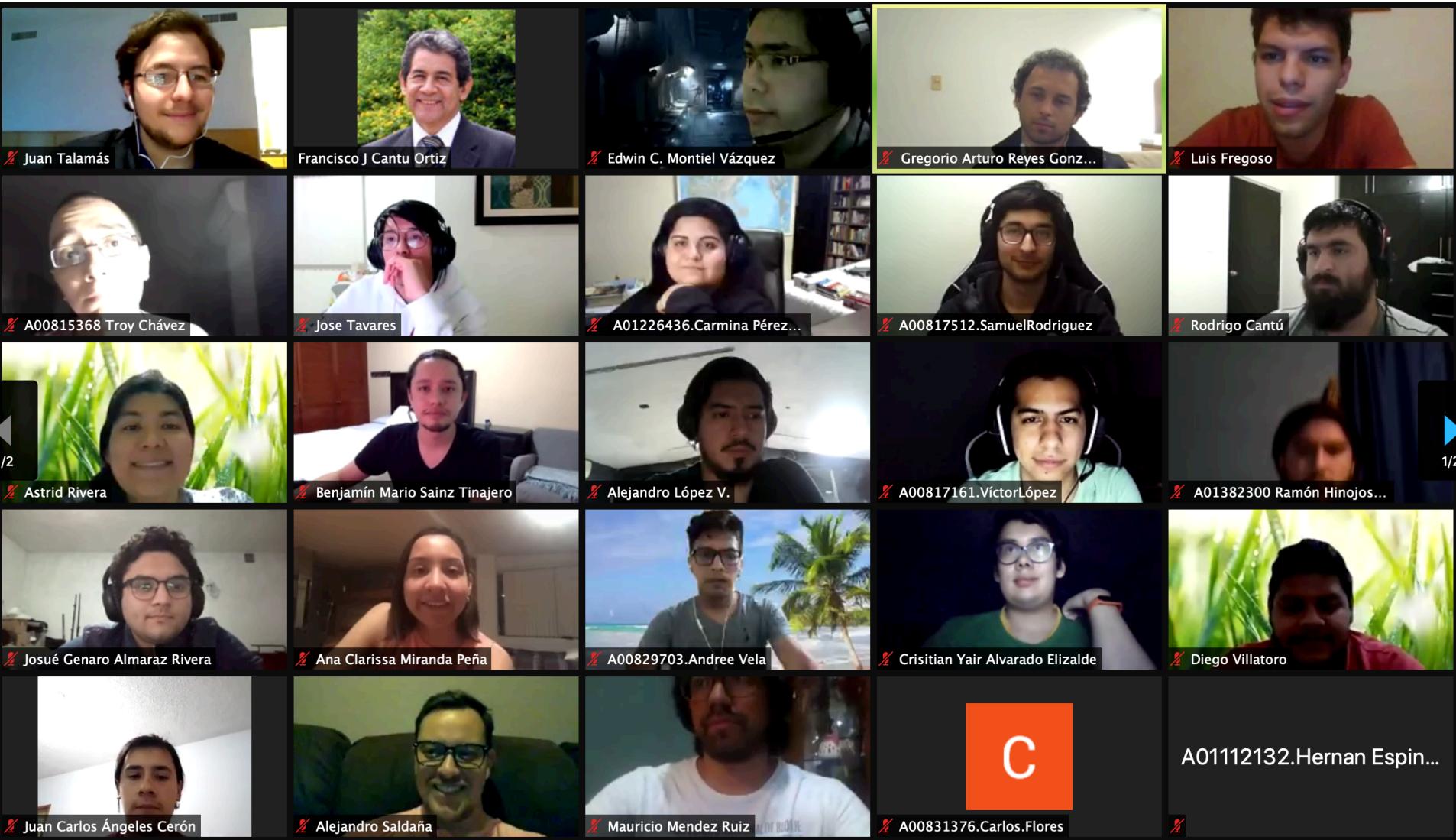
FITTING A
MATHEMATICAL
STRUCTURE TO DATA

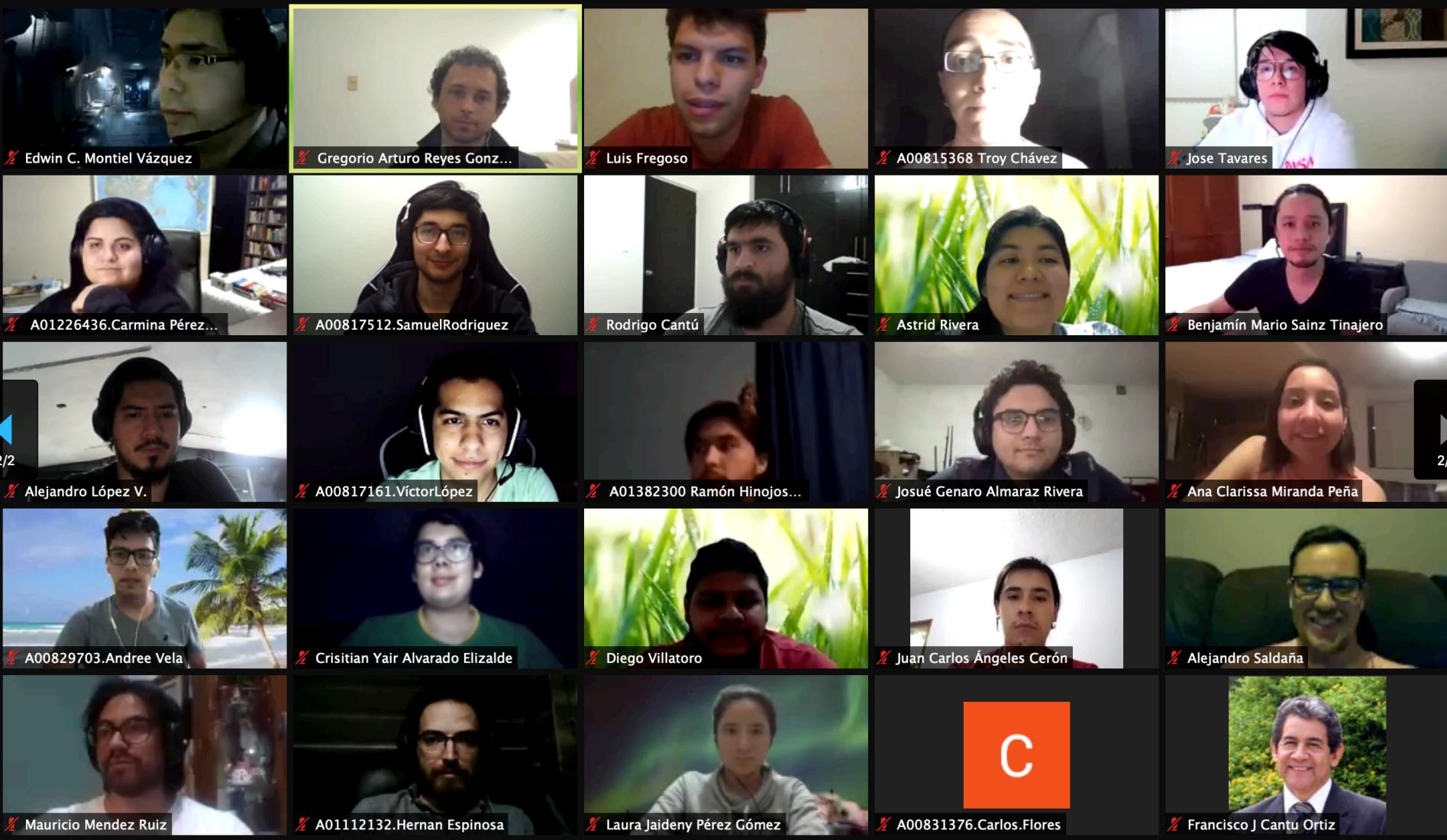


FEATURE SELECTION
OVERFITTING MODEL
VALIDATION
UNBALANCED
DATASETS



HANDS-ON EXERCISES
WITH PYTHON, R, AND
WEKA





Active Learning

With Various Hands-on Exercises in Python and R



**Enjoy the Class and have
Fun!!!**

HWA3

Q1

Q2

Q3

FPA2

Q1

Q2

Data Analytics

Articles Final Projects, Feb-June 2021

Id	Authors	Project Name	Status & Learning Outcomes
1	Diana Laura Aguilar	A Contrast Pattern-Based Analysis of the Restaurant Industry in the US in the Year 2020	
2	Josué Genaro Almaraz Rivera	COVID-19 Vaccination Progress Prediction in Mexico	
3	Cristian Yair Alvarado Elizalde	Analyzing Factors That Generate Company Bankruptcy	
	Mario Alberto Mendoza Cuevas		
4	Luis Alfonso Rojo Sánchez	Current Abortion Situation Analysis in Mexico	
	Sergio Eduardo Anaya Alvarez		
5	Andree Vela	INEGI 2020 Population Survey Analysis of Development	
	Juan Carlos Ángeles	Disparity of Disabled Individuals in Yucatan	
6	Rodrigo Alejandro Cantú Hernández	Fintech vs. Traditional Banks: Mexican User Experience Market Analysis	
7	Alma Socorro Torres Torres	COVID-19 Impact on Labour Productivity by Industry and Region in the United Kingdom	
	Troy David Chávez Gutiérrez		
8	J. F. Ciprian-Sánchez	Sentiment analysis on information related to news coverage on well-known newsnetworks such as BBC, CNN, NBC, and Fox News	
	G. I. Pérez-Landa		
9	Alejandra De Luna Pámanes	A sport climbing study: A data science approach	
	Mauricio Méndez Ruiz		
10	Hernán Espinosa Rodríguez		
11	Jessica Salinas Espinosa	Sentiment Analysis for the Identification of Misinformation on COVID-19 Vaccines	
	Carlos Flores Munguía		
12	Luis Fregoso Aparicio	Data Analysis for a automobile accident database from Mexico to prevent accidents and reduce insurance payout	
13	Andrés Alberto López Esquivel	Electric motor data analysis for temperature estimation	
	Arturo García Zendejas		
14	Ramon Hinojosa Alejandro	Twitter and Reddit post analysis on the subject of Cryptocurrencies	

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Articles Final Projects, Feb-June 2021

Id	Authors	Project Name	Status & Learning Outcomes
15	Victor Ivan Lopez Rodriguez	COVID-19 New Cases Prediction after Lockdown using Mobility and Recovery Data in Monterrey	
16	Alejandro Saldana Rodriguez	Technical Indicators in Indexed Stocks: ACRISP-DM Approach	
	Alejandro Lopez Vazquez		
17	Clarissa Miranda-Péñna	The Winning Formula for Football Competitions	
18	Edwin C. Montiel-Vázquez	Natural Language Processing for COVID-19 vaccine perception study	
19	Laura Jaideny Pérez Gómez	Discussion topics on COVID-19 vaccine tweets	
20	Carmina Pérez Guerrero	Metric Analysis for the Semantic Segmentation of Jet Fire Temperature Zones	
21	Gregorio Arturo Reyes González	A Bayesian Method Approach to Digital Violence Against Women	
22	Astrid Rivera Partida	Biodiversity of the Worldwide Food Production	
	Diego Villatoro Gerónimo		
24	Alfonso Ángel Medina-Santana	Global Environment Facility impact on renewable energy-based rural electrification: A data analytics perspective	
25	Samuel Guadalupe Rodríguez	Food retail sales prediction using weather forecast	
	Rodríguez		
26	Benjamín Mario Sainz Tinajero	Performance Analysis and Comparison of Multi-objective Evolutionary Clustering Algorithms	
27	Juan Andrés Talamas Carvajal	Social media Effects on the market: Reddit and Twitter Data analysis on Stocks	
28	Oliver Alejandro Vélazquez Flores	League of Legends and Teamfight Tactics (TBD)	