ADMISSION PREDICTION USING IBM AUTOAI & STREAMLIT

A Machine Learning-based Web App

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INTRODUCTION

- Objective: Predict student admission chances using profile data.
- • Why it matters: Helps students evaluate their admission eligibility.

Technologies Used

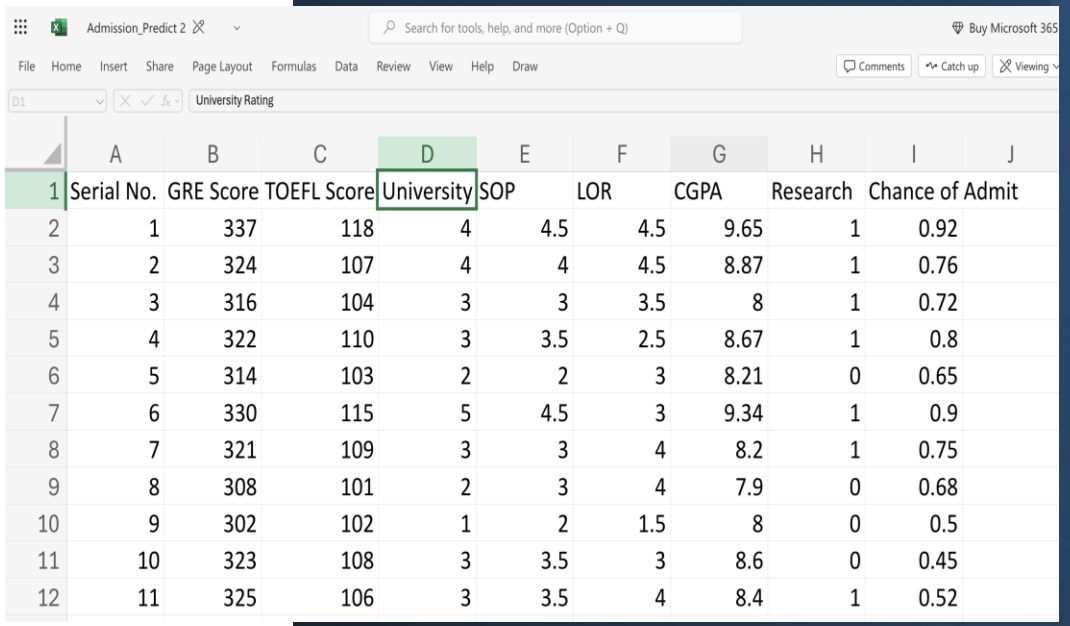
- IBM Watson AutoAI
- Streamlit
- Python
- IBM Cloud Object Storage
- Pandas, Scikit-learn (if applicable)

Dataset Description

SOURCE: CSV FILE WITH 200+ ROWS

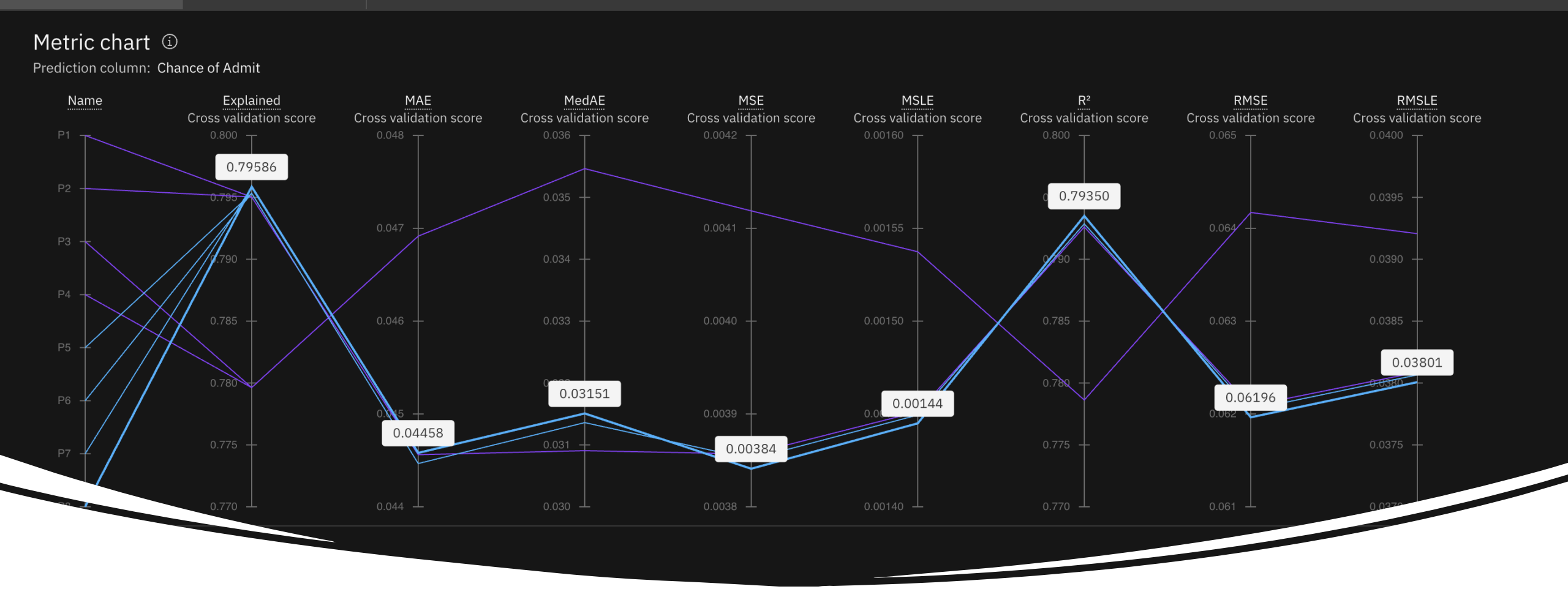
FEATURES: GRE, TOEFL, SOP, LOR, CGPA, ETC.

TARGET: CHANCE OF ADMIT (0–1)



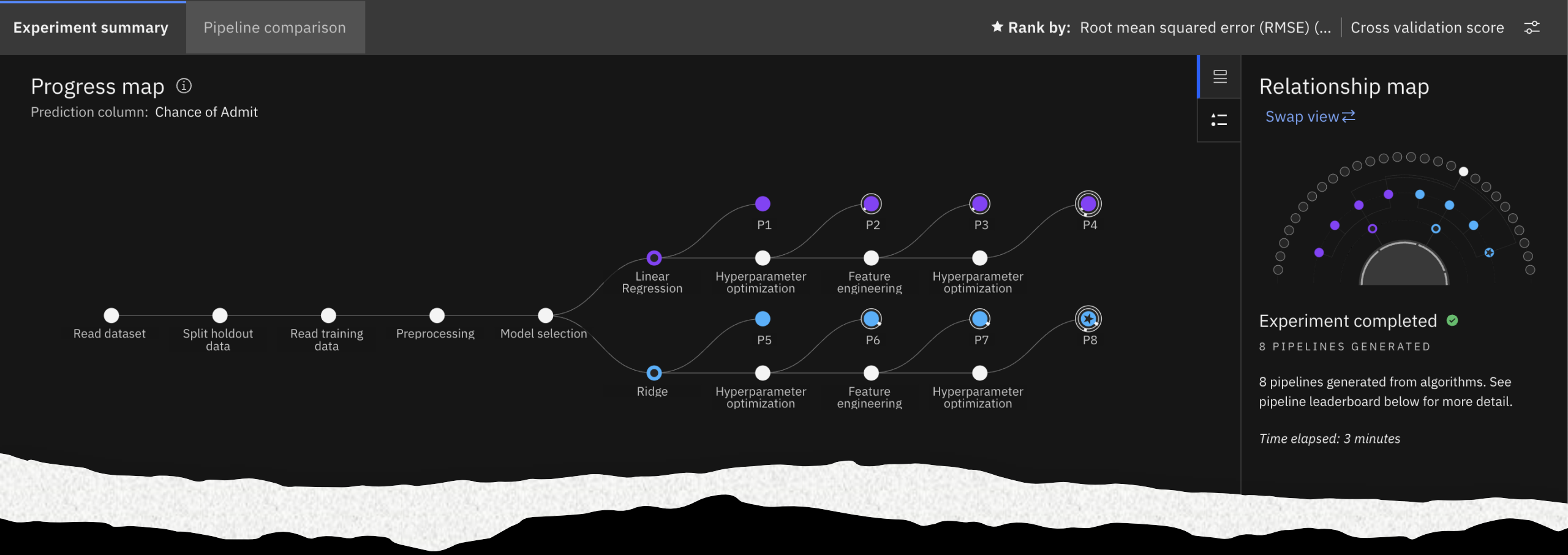
Admission_Predict 2

	A	B	C	D	E	F	G	H	I	J
1	Serial No.	GRE Score	TOEFL Score	University	SOP	LOR	CGPA	Research	Chance of Admit	
2	1	337	118	4	4.5	4.5	9.65	1	0.92	
3	2	324	107	4	4	4.5	8.87	1	0.76	
4	3	316	104	3	3	3.5	8	1	0.72	
5	4	322	110	3	3.5	2.5	8.67	1	0.8	
6	5	314	103	2	2	3	8.21	0	0.65	
7	6	330	115	5	4.5	3	9.34	1	0.9	
8	7	321	109	3	3	4	8.2	1	0.75	
9	8	308	101	2	3	4	7.9	0	0.68	
10	9	302	102	1	2	1.5	8	0	0.5	
11	10	323	108	3	3.5	3	8.6	0	0.45	
12	11	325	106	3	3.5	4	8.4	1	0.52	



Model Building with AutoAI

- AutoAI automates preprocessing and model selection
- Uploaded dataset to IBM Cloud
- Selected target column
- AutoAI generated and evaluated pipelines

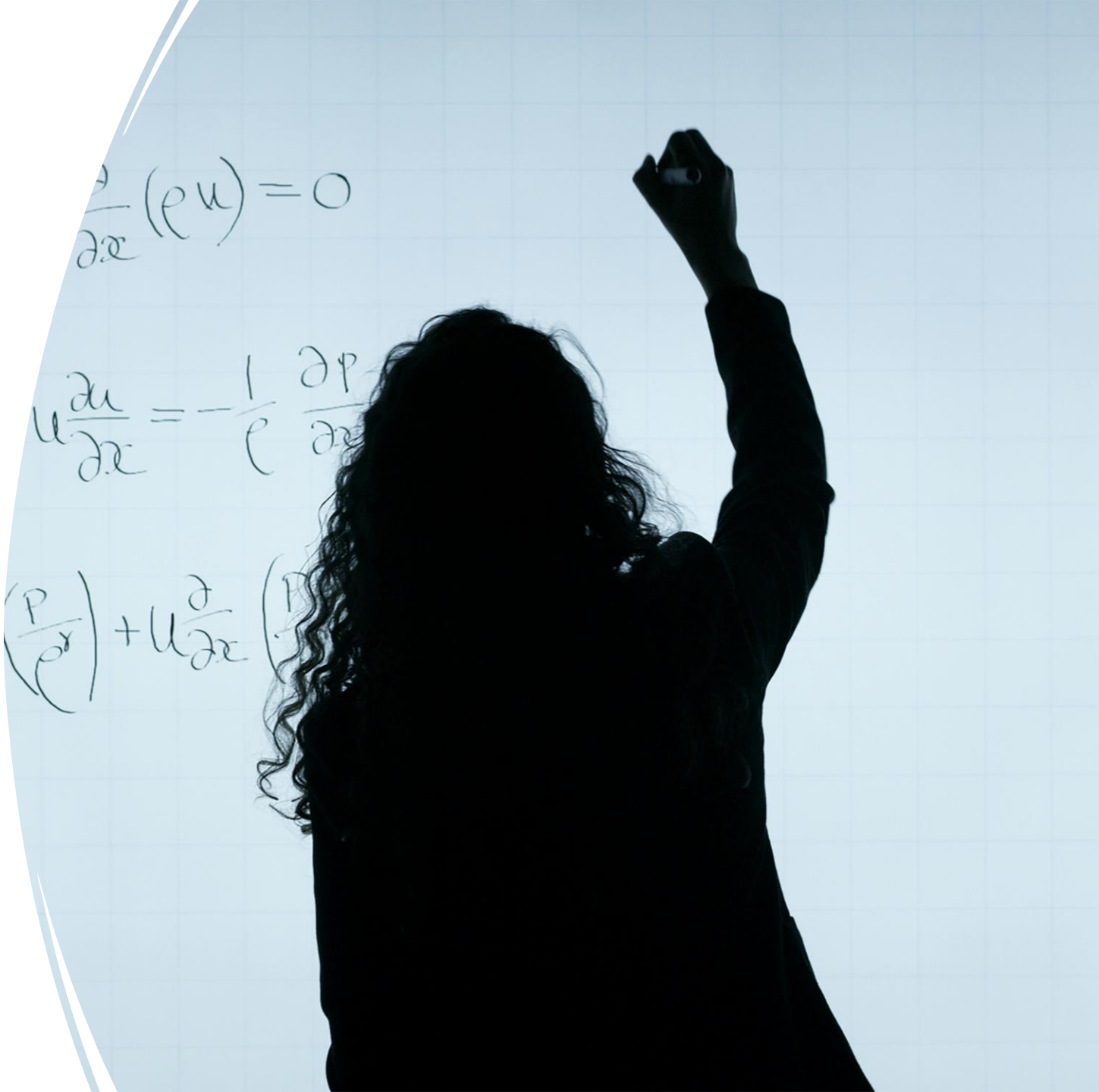


Experiment Results

- Algorithm used: Best performing model from AutoAI
- Accuracy/R^2 Score: Displayed in AutoAI output
- Visualization: Include screenshot or graph from experiment

How to Run the Application

- Clone Repo: git clone <repo_url>
- Install Dependencies: pip install -r requirements.txt
- Add .env file with WML credentials
- Run App: streamlit run app.py



Challenges Faced

- Challenge: Too many AutoAI pipelines → Selected best one
- Challenge: API Key security → Used .env file
- Challenge: Streamlit build error → Fixed pandas version


Thank You