SP-2 Data Mining and AI

CS 4850, Section 03, Fall Semester, 2024, 8/21/24, Sharon Perry

Project Team

Roles	Name	Major responsibilities	Contact (Cell Phone)
Team leader	Tanner Velzy	Documentation	404-405-3524
Team member	Andujar Brutus	Development	470-476-4473
Advisor / Instructor	Sharon Perry	Facilitate project progress; advise on project planning and management.	770-329-3895

Tanner Velzy

Andujar Brutus

1.0 Project Overview / Abstract (Research)

Our main objective with DataMining and AI will be to find patterns in criminals using a combination of data and AI. To do this, we will be using cloud software in tandem with our datamining application to extract specific data from various news articles from various sources. The dataset we will be using is based on global Terrorism 1970 to 2017 with specific columns defining aspects of the crime The specific data, such as cities, careers, wealth, will then be displayed for reference before being inputted into our AI that will then use the data to find some pattern or correlation between criminals. The AI, using the data it analyzed, will enhance crime statistics using data analytics and machine learning.

2.0 Project website

Studentweb.kennesaw.edu/tvelzy1

Deliverables - Specific to Your Project

1. A report of our data-based findings that our application extracts.
2. A report of our AI's findings in terms of correlations it analyzes.
3. SDD of both the application and AI.

Milestone Events

#1 SRS/SDD - By September 1

#2 Prototype - By October 8

#3 Final Report Package - By December 2

Meeting Schedule Date/Time

Biweekly every Thursday at 2:45 PM on Microsoft Teams.

Collaboration and Communication Plan

We will be meeting in Discord Monday and/or Fridays depending on what work needs to be done or we need to clarify some things.

Project Schedule and Task Planning

					Milestone #1				Milestone #2				Milestone #3				C-Day	
Project Name: SP-2 DataMining & AI																		
Report Date: 10/15/2024																		
Deliverable	**Tasks**	**Complete%**	**Current Status Memo**	**Assigned To**	09/02	09/09	09/16	09/23	09/30	10/07	10/14	10/21	10/28	11/04	11/11	11/18	####	12/02
Requirements	Meet with stakeholder(s) SH	0%		Tanner, Andujar	5													
	Define requirements	0%		Tanner	10	5												
	Review requirements with SH	0%		Tanner, Andujar		2	1											
	Get sign off on requirements	0%		Tanner			2	1										
Project design	Define tech required *	0%		Tanner, Andujar			10	10										
	Database design	0%		Tanner, Andujar				10	5									
	Application design	0%		Andujar, Tanner					10	5								
	AI design	0%		Andjujar, Tanner						10	10							
	Design to Code			Andujar						20	10							
	Develop working prototype	0%		Andujar							20	10						
	Test prototype	0%		Andujar, Tanner								10	5					
Development	Review prototype design	0%		Tanner, Andujar									10	5				
	Rework requirements	0%		Tanner										20	10			
	Document updated design	0%		Tanner											5	5		
	Test product	0%		Andjufar, Tanner					5			5	5	5	5	10		
Final report	Presentation preparation	0%		Tanner												10	10	
	Poster preparation	0%		Tanner													10	5
	Final report submission to D2L and project owner	0%		Tanner														5
	Total work hours	**301**			15	7	13	21	20	35	45	20	20	30	20	25	20	10

Other Plans – Like Risk Assessment (if applicable)

Along with the application and AI, we will be looking into data visualization to better showcase the data we have extrapolated. If we have time, we will look to compare different cloud software to see which one gives us better results.

Version Control Plan

We will set up a CICD pipeline, pushing every new change into our group GitHub so that we will stay on top of any updates we make and not accidentally use an old version.