Learning Analytics Group Project Presentation

Group C

Group C Members

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Ana Gebejes

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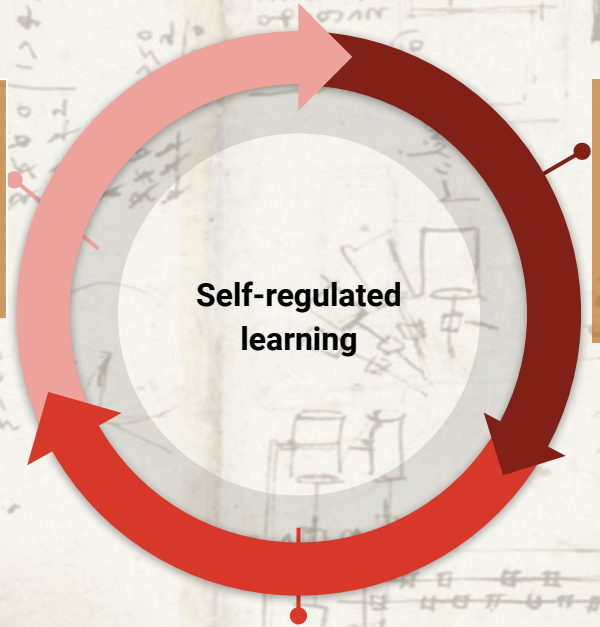
Abdulrauff Opoola

Tomi Rönkkö

Our mission

Foster self-learning principles in higher education students through video analytics

Some theory...


REFLECTION
Self evaluation
Regulation
Satisfaction
Reaction
FORETHOUGHT
Goal planning
Time management
Outcome Expectation
Intrinsic values
Self-regulated learning
PERFORMANCE
Task strategies
Attention Focusing
Self-instruction
Self-experimentation

Hi, there! I am Nova from the USA. I will be an exchange student at UEF during the autumn semester.

Let me tell you all about **DaVinci** today!

How ?

UNIVERSITY OF EASTERN FINLAND

University: improve the learning environment

Student: assisted learning

Teacher: optimized content

Analytics Software for Educational Video Conferencing

DA VINCI

University

UNIVERSITY OF EASTERN FINLAND

Ideal streaming time

Availability of recorded video

Tools: embedded quizzes and pre/post assessment

Quantitative:
# of std. streaming
# of std. watching in interval x

Qualitative:
Student activity
Depth of questions

Trend analysis: line graph, stacked areas...

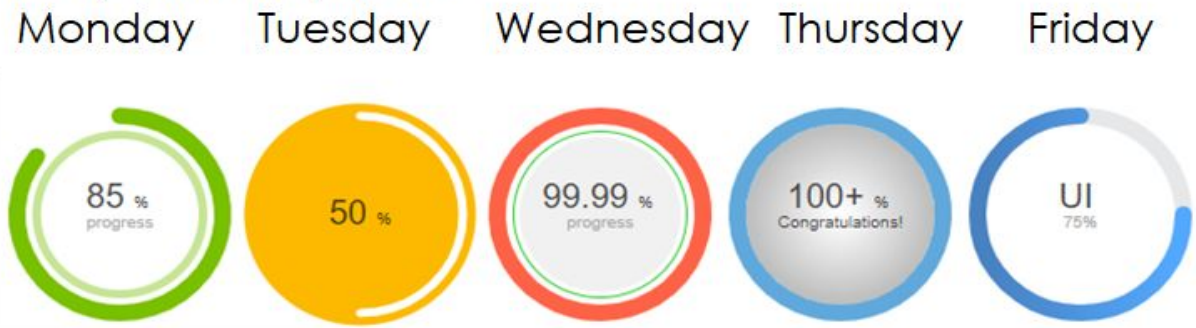
Lecturer:
Mohammed Saqr

Remind Support School
Weeki Wachee High Sc...

CLASSES OWNED

Create a class
Aiden's Test Class
Book Club
Geometry H
Not affiliat
Science C

Daily Video Streaming Rates for the Learning Analytics Lecture:



Suggested Day for The Learning Analytics Lecture is: Thursday

My schedule has been designed by DaVinci in a smart way!

Student

Average attention span per student

Attitude towards video learning

Material assimilated

Multimodal data

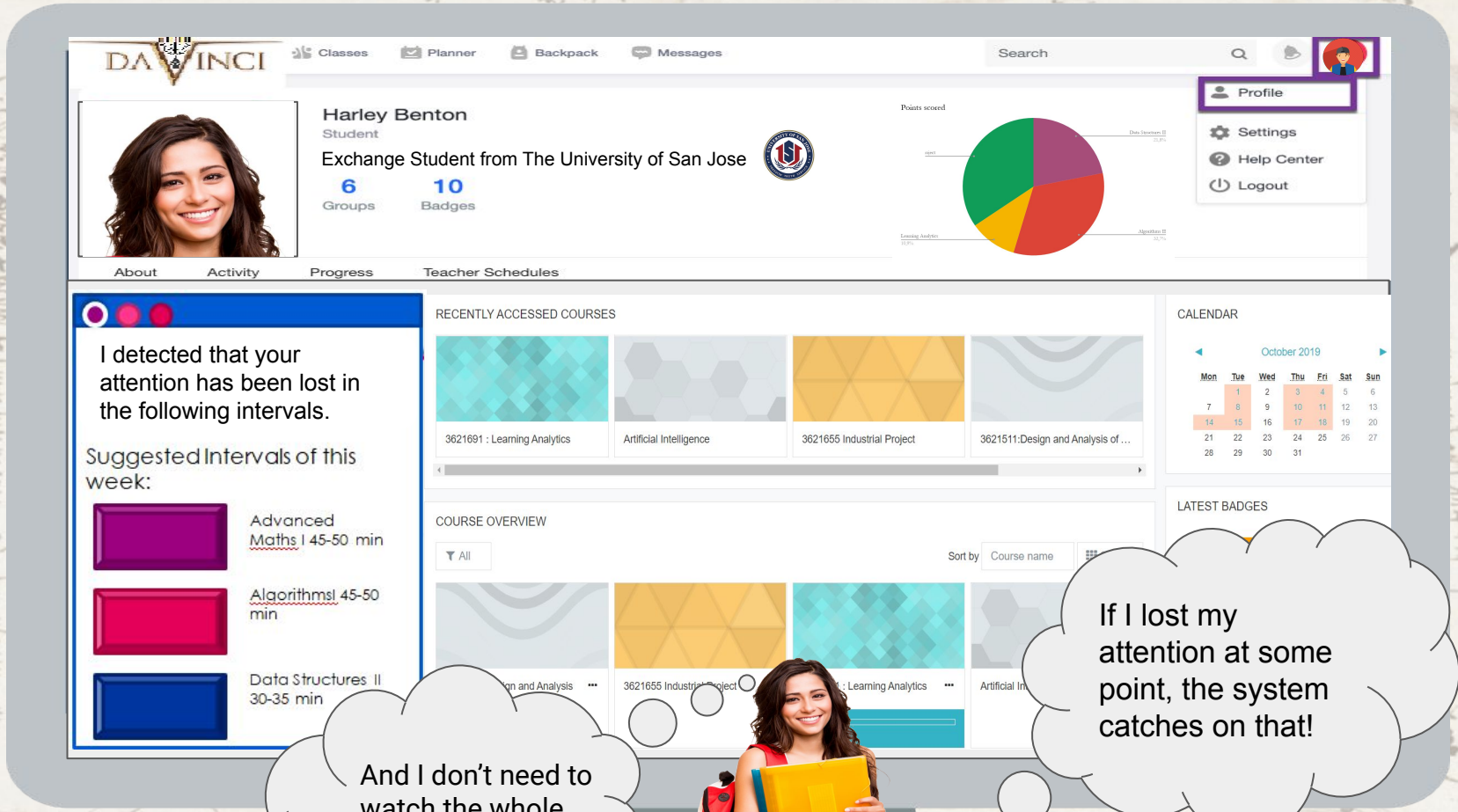
Streaming behavior

Assessment results

Dispositional form

Predictive analysis

Pro-active assisted learning


DA VINCI
Classes
Planner
Backpack
Messages
Search
Profile
Settings
Help Center
Logout
Harley Benton
Student
Exchange Student from The University of San Jose
6
Groups
10
Badges
Points scored
About
Activity
Progress
Teacher Schedules
I detected that your attention has been lost in the following intervals.
Suggested Intervals of this week:
Advanced Maths I 45-50 min
Algorithms I 45-50 min
Data Structures II 30-35 min
RECENTLY ACCESSED COURSES
3621691 : Learning Analytics
Artificial Intelligence
3621655 Industrial Project
3621511:Design and Analysis of …
CALENDAR
October 2019
Mon Tue Wed Thu Fri Sat Sun
COURSE OVERVIEW
All
Sort by
Course name
LATEST BADGES
And I don't need to watch the whole recorded lecture!
If I lost my attention at some point, the system catches on that!

Teacher

Suitable material for video conferencing

Next lesson

Tests & homework

Students' results in embedded assessment

Intervals 'best' assimilated

Streaming trends

Predictive analysis

Intelligent suggestions

Analytics dashboard

Lecturer:
Mohammed Saqr

Remind Support School
Weeki Wachee High Sc...

CLASSES OWNED

Create a class
Aiden's Test Class

DaVinci decides the homework topics!

DaVinci can analyse our facial expressions!

Teacher Profile

Weekly Summmary

40% 20% 30% 10%

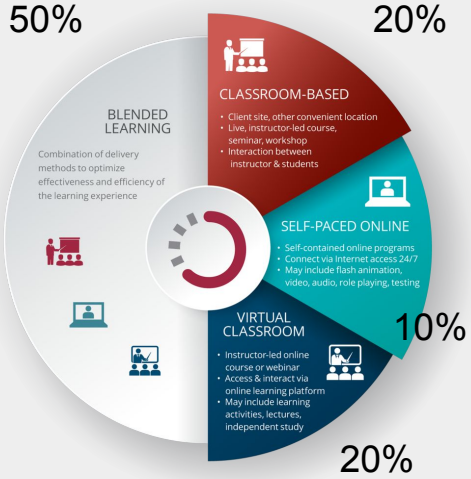
Facial analysis of your students in Data Structures Class this week

Topic 1	60%
Topic 2	80%
Topic 3	40%
Topic 4	70%

Suggested Homework To be given

Topic 3

Environment Distribution Summary of This Week



Lecturer:
Mohammed Saqr

Remind Support School
Weeki Wachee High Sc...

CLASSES OWNED

Create a class
Aiden's Test Class
Book Club
Geometry H
Not affiliated class
Science Club

PPT
PDF
Home-work!

Number of Downloads
Number of Clicks
Eye track focus level
Raised Hands
Left early

Total Efficiency according to the given metarials

80%

Suggested Materials for this lecture :

DaVinci measures the effectiveness of a lecture and suggests material!

Ethics

Consent

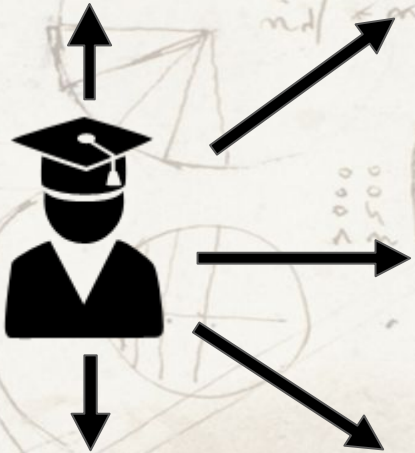
Informed participation to the study/system

Transparency

Anonymous identity

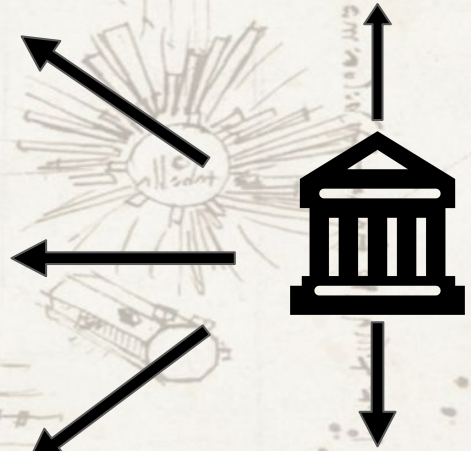
Data Ownership and Control

Access Control



Accessibility of Data

Data & analysis visible to stakeholders



Student Agency and Responsibility

Students have the right to remove the data

Validity of Data

Verifying identity

Measure multiple times

Institutional Responsibility

Protection Storage Usage

Reflection

Project

- 👍 Interesting!
- 👎 “Fictional”

Team

- 👍 Good dynamics
- 👎 Late start :(

Course

- 👍 Ideal intro :)
- 👎 More on analytics