Online Student Attention Analytics using Hybrid Machine Learning

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Abstract: *Monitoring a student while they are in a video conferencing classroom is a non-intrusive approach. To digitizing student's behaviour, understanding student's attention span and what type of behaviour may indicate a lack of attention is fundamental for understanding and consequently improving the dynamics of a lecture. The main goal of this project is to develop an autonomous agent which can provide information to both teachers and students. And based on the information received we will be able to know how interactive or enthusiastic the class was which will be helpful for the teacher to improve in the way they teach or will help to guide the student. With the help of this, the teacher will get to know the topic that was boring and will be able to focus on that.*

REFERENCES

[1]   Costagliola, Gennaro, Mattia De Rosa, Vittorio Fuccella, Nicola Capuano, and Pierluigi Ritrovato, A Novel Approach for Attention Management in E-learning Systems." (2010) In DMS, pp. 222-227.

[2]   Thurmond, Veronica A., Karen Wambach, Helen R. Connors, and Bruce B. Frey, Evaluation of student satisfaction: Determining the impact of a web-based environment by controlling for student characteristics." The American journal of distance education 16, no. 3 (2002): 169-190.

[3]   Swan, Karen, Virtual interaction: Design factors affecting student satisfaction and perceived learning in asynchronous online courses, Distance education 22, no. 2 (2001): 306-331

[4]   Fjelstul, Jill, The Impact of Online Education on Academic Performance for Ladies Professional Golf Association Teaching and Club Professionals, (2006)

[5]   Nguyen, Viet Anh, The impact of online learning activities on student learning outcome in blended learning course." Journal of Information Knowledge Management 16, no. 04 (2017): 1750040.

[6]   Glover, Hayley, Frances Myers, Bronagh Power, Carey Stephens, and Jane Hardwick, Listening and Learning? Privileging the Student Voice in E-Learning 34 Discourses of Withdrawal: A Qualitative Analysis." International Association for Development of the Information Society (2018).