Nomination: 20337

Empowering Educators: How Teacher PA Combats Burnout and Redefines Teacher Support

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Page: General Information

Name of Organization / Company

Jannic Education Solutions

Logo

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Web Site Address

https://jannic.com.au/ (https://jannic.com.au/)

Page: Entry Information

Entry Title

Empowering Educators: How Teacher PA Combats Burnout and Redefines Teacher Support

Category

F55 - F62 - Award for Innovation in Apps > F57. Award for Innovation in Education or Training Apps

Submission Format

An Essay of up to 625 Words

Essay

The global education sector is facing a crisis with severe teacher shortages, exacerbated by high attrition rates and widespread occupational burnout. This crisis poses a threat to the delivery of quality education. Recent studies underscore the urgency of the issue: the 2023 Teacher Wellbeing Index revealed that 78% of teachers identify as stressed, and a McCrindle Research study found that nearly 80% felt burnt out following the pandemic. Overall, between 40% and 50% of teachers leave the profession within five years. These figures highlight the urgent need to address the factors contributing to teacher burnout and ensure that the teaching profession remains sustainable and attractive to dedicated individuals.

Teacher PA introduces companion bot technology, integrating Large Language Models (LLM), Large Action Models (LAM), and Machine Learning (ML) capabilities to combat teacher burnout. Teacher PA currently utilises three LLM-based virtual agents accessible through a messaging app. These agents act as personalised assistants, helping teachers manage their workload, address diverse student needs and access crucial professional and emotional support, all at their fingertips.

Agents are engineered to address 3 of the 4 main reasons teachers leave the profession: excessive workload, work intensification, and insufficient support.

The first agent, Hanna, functions as a curriculum expert who helps reduce workload. Using curriculum standards from the teacher's region, Hanna drafts lessons that align with required learning outcomes. She adjusts lessons to cater for students with diverse learning requirements, both reducing teachers' administrative burdens and enhancing students' learning experiences. She marks papers to further increase efficiency.

The second agent, Ravi, addresses work intensification by supporting teachers who work with students who have undiagnosed learning or behaviour needs. A 2022 report from the United Kingdom found close to 1/3 of teachers said they were not prepared for dealing with difficult pupil behaviour. Ravi engages teachers in structured conversations to uncover specific student challenges. Based on these interactions, he suggests intervention strategies that can be immediately implemented.

The third agent, Marlene, provides professional and emotional support. Using coaching frameworks, Marlene facilitates reflective practices that enable teachers to analyse challenges and develop solutions. This approach promotes teacher self-efficacy and mitigates the feelings of isolation often associated with burnout.

To validate Teacher PA's impact, a six-week testing period (17/11–29/12), a focus group of nine educators collectively engaged with the MVP version of the app more than 400 times. Key benefits included:

- Increased student engagement through hands-on lesson activities.

- Effective resolution of staff conflicts and emotionally charged emails.

- Creation of accessible content for students with learning disabilities.

- Development of differentiated activities for diverse learning needs.

- Simplification of administrative tasks, such as playground incident reports.

Participants reported saving up to three hours of work weekly, alongside reduced emotional strain from staff, parent, and student interactions. The Learning Support Specialist feature was particularly praised for providing practical strategies to support students with neurodiversity.

Further development of Teacher PA will integrate the three agents into a single, configurable virtual assistant by 2025. Plans include expanded functionalities, such as tracking student progress, drafting incident reports, and generating report card comments. These features will incorporate Large Action Models (LAMs) alongside LLMs to enhance workload management and streamline administrative tasks.

To ensure data security, Teacher PA will soon be fully compliant with ISO 27001 and SOC 2 standards, safeguarding sensitive teacher and student information.

Teacher PA demonstrates measurable potential to mitigate burnout by assuming the roles of professional coach, caring colleague, curriculum expert, data manager, and personal secretary. Virtual agents are now being orchestrated and integrated with relational and vector databases to ensure responses are based on stored knowledge, providing continuity and personalisation. Once complete, Teacher PA will be the only educational companion bot technology of its kind.

For this category please provide

An essay of up to 625 words describing the app and the innovative aspect of the app since July 1 2022 that you are nominating, **OR** a video of up to five (5) minutes in length illustrating the same.

If you provide a written essay, you must also provide a a demonstration video about the app of up to three (3) minutes in length. You must attach the demonstration video to your entry through our attachment/link uploading tool. If you provide a video instead of a written essay, the additional video is not required.

Optionally, you may list creative and production credits for your app - a list of the people and organizations that contribute to its development.

Credits

Do You Have Supporting Files You Would Like to Upload?

Yes

Audio (Mp3), Documents (PDFs, Word, PowerPoints), Images (PNG, JPG, TIF), and Video (Mp4)

200 MB Max per File

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