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(71)**Name of Applicant :**
1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY
Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Uttar Pradesh India
(72)**Name of Inventor :**
1)CHANDRAPAL SINGH ARYA
2)UTKARSH MISHRA
3)MOHINEE PRIYADARSHI
4)SMIRITI JAISWAL
5)RAVIRAJ SINGH KURMI
6)SUMAN DEVI

(57) Abstract :
ABSTRACT Disclosed herein is a an artificial intelligence (AI)-powered multi-task management system (100) that comprises a user device (102) having a user interface (104) incorporated in a housing structure (106). The housing structure (106) comprising a processing unit (110) connected via a communication network (108). The user device (102) includes a microphone (108), capturing unit (110), sensor assembly (112), and key panel (114) configured to receive user inputs. The processing unit (110) comprises a data input module (112), a pre-processing module (114), a feature extraction module (118), a task analysis module (120), a priority index module (122), a scheduling module (124), a behaviour module (128), a ranking module (132), an alert module (138), and an output module (140) to compute deadline durations, analyses user interaction patterns and availability, ranks uncompleted tasks, and generates optimized reminders and alerts, reducing cognitive load and improving task management efficiency.

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