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Extended Project Qualification Presentation

Structure

- ► Intents and Ideas
- Project Question
- Research
- Findings
- Conclusion

Interests and Ideas

- Computer games
- ▶ Engaged with different computer games at childhood.
- Strategic maneuvers in computer games.
- Computers' ability to make decisions about the game.
- Modern IA applications in computing technology
- Turing Test
- Watson system by IBM Pass Turing Test

Project Question

How does Turing Test of 1950 Impact Progressive Developments in AI and

Machine Learning with comparisons to IBM's Watson to Pass Turing Test.

Research

- Qualitative research
- ► Peer reviewed Publications
- Turing Test and Impact on modern AI
- ▶ Attempts to pass Turing tests in modern NLP in Al.

Findings

- ▶ Watson by IBM reconstruction of 21st century Turing Test.
- Further Natural Language processing (NLP) with advanced Architecture for Question Answer (Q/A) technology.
- Watson translates natural language query for answers.
- Watson passed Turing test (computer's ability to think) in game of Jeopardy (2011).
- Arising issues inability to answer easier questions.
- Limited to human intelligence

Strengths of Watson

- Ability to pass Turing test by beating champions of game of Jeopardy.
- Execute natural language questions for answers.
- ▶ Intelligent in reasoning and response over human
- Higher scores than game of Jeopardy champions.
- Less than 3 seconds response time
- Summaries of complex legal cases

Weakness

- Arising issues inability to answer easier questions.
- ▶ Not able to achieve simple human intelligence
- ► Lack of extra sensory perception (ESP).
- Rely on human intervention to program search abilities.

Conclusion

- Computer gaming involves ability of computers to think.
- ► Turing test involves learning machine.
- Computers use search in AI and machine learning.
- Modern AI Watson capable to reason beyond human using NLP.
- ► Human intelligence yet to be achieved.



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