Artificial Intelligence

Bringing Enablement and Insights together to Transform Industries and Humanity
Fiction to Plausible Reality

Alan Turing
Came up with the idea that machines ‘think’ in 1950
wb = load_workbook(filename)  print (""
filename4createFolder = filename4createFolder + fileN
numberofColumn = ws.max_column
numberofRow = ws.max_row
idNumber = 1
for row in ws.rows: for cell in row: if (pivotCell == 1): temp=str(cell.value)
pivotCell+=2
else: "item_ID = cell.value" if (pivotCell == 2): "item_Event = " if (item_Event == "RT_EVENT" and pivotCell == 3): "item_RICname = cell.value"
if (item_Event == "RT_EVENT" and pivotCell == 4): "item_Template = " if (pivotCell % 2 == 1 and str(cell.value) != "None"): "keyDict = cell.value"
if (item_Event == "RT_CHAIN_EVENT" and pivotCell == 4): "item_Template = " if (pivotCell % 2 == 0 and str(cell.value) != "None"): "keyDict = cell.value"
if (item_Event == "RT_OUTPUT" and pivotCell == 4): "if (pivotCell % 2 == 0): tempString = tempString.replace("czDataCal = datetime.date.strftime(d, \"%Y-%m-%d\") tempString = template", "template_type_buffer")
tempString = tempString.replace("czDataType", typeOfFID.capitalize())
elif (typeOfFID == "TIME"): dataCal = str(value) searchObj = re.search(r'\d+-(\d+)-(\d+) (\d+):\d+\(\d+\) \(\d+\)\d+\d+', dataCal, re.M|re.I) if searchObj2 = re.search(r'\d+-(\d+)-(\d+) (\d+):\d+\(\d+\)\d+\d+', tempString, re.M|re.I) if searchObj2: tempHour = searchObj2.group
The Robots Are Amongst Us
Technology Has Been Around For a While

Cameras
Late 19th Century

Radars
Second WW

Ultrasonics
Late 1970s

Computing
1970s
- Will save lives
- Better infrastructure utilization

...And will transform the industry
Tech + Tech = Enablement

CATALYST FOR INNOVATION
San Diego’s Accidents
San Diego's Citations
All mashed up...
Charlotte’s Hospitals
Charlotte’s Accidents
All mashed up…
Data + Data = Insights

NEW QUESTIONS CAN BE ASKED
Smart Cars?
Smart Phones?
Tech + Intelligence = Adoption

ACCELERATING THE ACCEPTANCE
Contextualized Airlines

Curse of Narrow Algorithm
Narrow AI

AI that is good at performing a single task.

• Speech & Image recognition
• Loan Applications
• Marketing
• Self-driving cars – coordination of several narrow AIs
• Based on Supervised Learning
Making use of the knowledge gained while solving one problem and applying it to a different but related problem.
Machine learning methods based on learning data representations, rather than task-specific algorithms.

- Image & text translation
- Handwritten text generation
- Colorization of black & white images
- Adding sound to silent movies
GANs: What if Neural Networks fight?

Machines that think | *generative adversarial network* | Machines that imagine
AI that can understand and reason its environment as a human would.

Always been elusive. We’ve been saying for decades that it’s just around the corner.

But someday...the human brain is a powerful, beautiful thing!
General to Super AI

When AI becomes much smarter than the best human brains in practically every field, including scientific creativity, general wisdom and social skills, we’ve achieved Artificial Super Intelligence.

Once General is achieved, Super will rapidly follow.
Common sense based on understanding, science is based on observation and experimentation.

Common sense is often clouded with blind spots where AI is not. Not rule-based. Not entirely logical.

Can machines really achieve “common sense” in the near future?
What jobs are at highest risk?

- Jobs that require to consume a lot of data to come to a simple conclusion, and need to be repeated
- Jobs that take less time to think, and more time to execute

Around 65% of children starting primary school today will end up working in jobs that don't yet exist.
How to Communicate AI

- Physical to Physical
- Physical to Virtual
- What about AI?
Some Thoughts on adopting AI

• Process Automation: Intelligent Automation:
  • Updating all SORs, your data store
  • Replace lost credit cards
  • Read and interpret legal documents

• Cognitive Insights: Detect patterns
  • Likely buying behavior
  • Warranty Fraud
  • Cyber Security
  • Audit: Tie IT Contracts to services delivered

• Cognitive Engagement
  • Intelligent Agents
  • Health treatment recommendation
  • Mental Health
Some Thoughts on adopting AI

• Map out the road ahead
• Moonshot or Hotel Booking Recommendation
• Make an existing application smarter/autonomous
• Chatbots – medium-level cognitive technology
• Explore automated generation of analytical models through machine learning
EFFICIENT
Thank you for your time!

Rishi Bhatnagar
CEO, Syntelli Solutions Inc.