1. Brain tumor mri
   * white/black matter
   * whole brain MRI
   * voxel classification
   * white matter lesion
2. MRI guided biopsy in liver (Gist in female cancer)
3. MRI image analysis using ANN/RNN
   * need segmentation + extract features
   * complex spatial data
   * CNN / RNN
4. AI radiologist assistant – deep learning can auto-generate AI-based report
   * automated captioning/image

* Skin cancer
  + Early detection
  + Lesion segmentation/classification
* Pancreatic cancer: one of the most lethal cancers
  + Early detection is hard; found at stage 4
  + Extract physical/clinical data for early stage screening
  + Methods: ultrasound, CT, MRI
  + Use CNN, LSTM to analyze the unstructured, visual, & signal data to predict survival
* Other ML/AI applications:
  + Abnormal CRFs using LSTM, BERT, RFF?
  + (AIP) (e.g., chest X-ray)
  + Audio signals (speech)
  + Detecting mood from audio (depression)

**Image 2:**

**EQ - 1**

1. Context
   * took the laptop
   * typed it all out
   * copied the most important summary
   * focus on projects
   * Projects list
2. Finish AI model
   * finish training
   * Programming topic
3. Access Source
   * Make a plan (goal + tools)
   * Access source (e.g., GitHub)
4. If interested in medical science
   * AI in radiology – neural networks
   * predict disease, detect tumors
   * model images: ultrasound, MRI, CT
   * learn medical language
   * interested in clinical science
5. Share: “I have a completed project, know how to code”
   * Understand clinical image in medical science
   * Long-term: clinical image in medical science
6. I like note-taking + workshops
   * I love learning & like more conversations
   * I love visuals!
7. Social justice advocate / YAC
   * printing
   * friends
8. No
9. I am sharpened on the Ascendary Prompt essay
10. **Brain tumor MRI**
    * white/black matter
    * whole brain MRI
    * voxel classification
    * white matter lesion
11. **MRI-guided biopsy in liver (GIST in female cancer)**
12. **MRI image analysis using ANN/RNN**
    * needs segmentation + extract features
    * complex spatial data
    * Ex: CNN / RNN
13. **AI radiologist assistant**
    * deep learning can auto-generate AI-based report
    * automated captioning/image

* **Skin cancer**
  + early detection
  + lesion segmentation/classification
* **Pancreatic cancer**: one of the most lethal cancers
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