2/26 Meeting

# Agenda:

* While there are countless excellent AI/ML resources available, one that stands out is this mind map (https://dbourke.link/mlmap). It is an interactive "tree" that expands out to numerous “branches” with explanations and useful links. This allows you to "branch out" and learn the various aspects of AI/ML.

As an example, here is the first level and how many branches are under each branch:

Machine Learning (Root)

* + Machine Learning Process (steps in a machine learning project) (173)
  + Machine Learning Problems (60)
  + Machine Learning Resources (how to learn, places to visit, etc.) (102)
  + Machine Learning Tools (tools you can use to get the job done) (50)
  + Machine Learning Mathematics (what's running under the hood when you write machine learning code) (13)

Come join us as we explore this mind map and see how it can help you on your AI/ML journey!

# Action Items :

# Plan For Next meeting:

2/12 Meeting

# Agenda:

* 12:30-1:00 – talk about prioritization for tangible deliverables for the CoE
  + Data Science Playbook
  + Launchpad services for AI/ML templates, utilizing most common models - fully containerized
    - Quick easy (business) use cases – readily seen ROI & modular approach
    - Team Topologies – Cognitive load with team
* 1:00-1:30 – Manish to speak with the CoE team

1/15 Meeting

# Agenda:

* Simon to go over Attain CoE performance objectives
* Discussion around changing time slot for CoE meetings to allow for more time for discussion
  + 1 hour instead of 30 minutes. Jennetta will post a meeting agenda with timetable several days before the BiWeekly CoE meeting so if you can only attend for a part of the meeting, you will know which part to attend for.
* AWS conversation – see notes below

RPA discussion – might run short on time but Joe and Shawn posted some great articles (1- <https://arxiv.org/pdf/2007.13257.pdf> & 2- <http://leemans.ch/publications/papers/cii2019syed.pdf> ) that I hope people will find useful and insightful, and will prepare us for their presentation next week.

## AWS Credits for CoE’s:

* **Training**: *Please start thinking about whether there are any folks on your teams that you would like to have trained in any aspects of AWS services/certifications.  Training would be provided by a third party AWS training partner, paid for by Attain, and then we’d get reimbursed by AWS through our PTP credits.*
  + Matt : S3, asset management, cloud services , deep dive into a specific model e.g. XGBoost, utilized in AWS for speed/accuracy
  + Sudha: ML training
  + Ramy: Associate Cloud Solutions architect (recommends this from research)
  + Joe: Security
* **Marketing**: I will be working with Laura to explore the possibility of organizing an Attain-sponsored ACT-IAC webinar relating to AWS (and something more specifically topical than that, maybe AI/ML), which AWS would reimburse us for.  We are open to any other thoughts or ideas on marketing development activities that we could pursue, again with AWS reimbursing us.
* **POCs**: If you are already planning or would like to contemplate doing any AWS-related proofs of concept for an existing or prospective client, or for general presales activities, please let me know.  These funds can be used to offset our costs, but I believe that that AWS will not reimburse our own hourly labor costs, only the AWS service/consumption costs.
  + Matt: document based image processing / computer vision - can be used as a PoC for MDASII and for prospective clients
  + Tom: cost tracker, infrastructure in general
  + Jennetta: building out graph visualizations for cost and resource utilization
  + Joe: cost comparison between building APIs through EC2 shared clusters / stateless lambda functions (could result in a PoC / white paper with benchmarks).

# Plan For Next meeting

* Action Item: Jennetta will send out updated meeting that will be 1 hour moving forward
* Next meeting:
  + 12-12:30 Joe & Shawn will present on RPA
  + 12:30-1:00 Olivia and her team from AWS will present on AWS Rapid Adoption program for Attain.

12/18 Meeting

# Agenda:

* Please fill out `AI Across Attain` document attached to the **Files** section of the AI CoE
* Planning out First Quarter
* Talk about executive order
* Laura Smith- Attain Sponsored Webinar with ACTIAC
  + Post abstract in CoE Channel
* RPA 101 – Joe Webb and Shawn L
  + January
* More informal / short tutorials

# Plan For Next meeting

* Action Item for Joe & Shawn – post literature to the CoE channel by January 4th for team to review on January 15th, and then Joe and Shawn will present internally on January 29th

12/04 Meeting

# Agenda:

* Please fill out `AI Across Attain` document attached to the **Files** section of the AI CoE
* Quick discussion on AI Brownbags
  + RPA 101 – Joe Webb and Shawn L
    - January
  + Ai for Decision Making (descriptive, predictive and prescriptive analytics in python )
    - February
  + Scaling kubernetes / image recognition – Jeremy
  + BERT/sentiment analysis & webscraping tool– Matt Cintron (shooting for april - internal to CoE)
  + End to End NLP model training and serving – Brownbag - Jason
  + Robot Operating System - Thomas (internal to CoE)
  + Graph Data base / Knowledge graph Jennetta (internal?)
* Discussion on ideas for how to fill our time during these meetings and how to advance our education by means of these meetings:
  + Theme of the month for syncing articles and presentations

# Plan For Next meeting

# \*\*\* We will have the next meeting, 12/18, but then skip the following meeting due to new years day\*\*

# Action Items

* Everyone can add a summary of their project title and how they are adding AI/ML/ RPA offerings to this project. **document title is called AI-Across-Attain.docx**
* Jeremy to talk about kubernetes during Janaury in the AI CoE

11/20 Attain AI,ML,Data Science RPA CoE Meeting

# Agenda:

* spend some time talking about the different AI, ML, RPA projects that exist across Attain and make a plan to summarize these projects in a way that is useful to Attain
* Talk about the upcoming AI BrownBag Series presentation and the planned cadence / topics over the next coming months
* Follow up on MLOps Pipeline

# Action Items

* Everyone can add a summary of their project title and how they are adding AI/ML/ RPA offerings to this project. (@Jennetta to add a document to the Files section of the Teams channel)

11/06 Attain AI,ML, RPA CoE Welcome & Planning Meeting

# Current Initiatives in AI at Attain:

## MLOps Pipeline

* 1. **Goal:** to create a pipeline for machine learning models that incorporates DevOps CI/CD as it’s core and offers some automation along the lines of ETL, EDA, model training, predicting, and serving for several different types of models and data.
  2. **Types of Talent Needed:** AI Engineers, DevOps Engineers, UI/UX developers, website developers, AWS expertise.
  3. Incorporate with Brad G’s work he’s already done with his CICD pipeline - PIAB
* Create a github repo for attain AI

## AI Brownbag Series

Tasks to Do:

* **Set a meeting Cadence** – work with Manish, Laura, and others to cooridate a cadence for this brownbag series
* **Decide on Content** - suggestions:
  + AI for Decision Making in Business
    - Talk about how business leaders and analysis can utilize both AI experts and AutoML tools for helping with decision making based on data.
  + Neural Network Deep Dive
  + NLP Deep Dive
  + Ethical AI
  + MLOps (once it is done) - probably need atleast 2 presentations on this – a what is it? And a how to use it?
  + Edge Computing
  + Computer Vision
* Group of presenters / volunteers
  + Maybe ask people who have given talks previously if they are willing to share their presentations or give previous talks to fill gaps while others are preparing new slides?
* Create a long term schedule

## Data Science Website / Blogs / White Papers

From Laura:

**Campaign Goals**

* Position Attain as a thought leader in data science, specifically AI/ML
* Increase awareness of Attain’s AI/ML capabilities and expertise
* Events page

## Thought Leadership

* Conferences / Speaking Engagements
* Monthly Internal `AI Working Group` discussion
* Outreach / meetups / external presentations & brownbags
  + Work with recruiting team
* Internal Knowledge sharing (project based) to share what is happening between projects in AI