Report on Decoding AI Event

Event name: Decoding AI
Conducted by: ViSER LLC (https://www.go-viser.com/)
Sponsored by: ACM-SIGAI
Location: Online (using ZOOM)
Event Day/Time: Oct 10 – Oct 31, 2020 (Every Saturday, 3:00 – 5:00 pm EST)
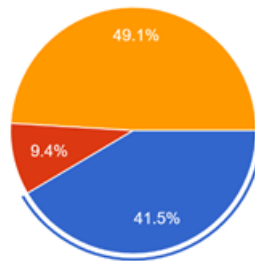Contact Person: Vandana Srivastava, viserllc@gmail.com, (914) 374-7576

Post event Summary

The proposal* of "Decoding AI" event was selected by ACM SIGAI from a pool of entries. ViSER conducted this program online for high school students and adults. We advertised about the event on different social media platforms and registration was available using Google forms and Eventbrite. The detail of registration is given below:

	Total	Adults	College	HighSchool
Google forms	53	26	5	22
Eventbrite	14	Not Available	Not Available	Not Available
TOTAL	**67**			

The registrants belonged to different states in the USA (NY, SC, TX, CA, NE) and from different countries (USA, India, England, Germany, Kenya, Nepal).

The event comprised of 4 sessions, each session being 2 hours long and centered around different topics*, related to AI. The sessions included a presentation, accompanied by hands on project on Data Analysis, Text Analysis and Creating Chatbots using Dialogflow. The participants were introduced the basics of Python programming in the first session. In the second session, we trained them to use Jupyter notebook online (https://jupyter.org/try -- binder) so that they can follow the programming projects. In session 1, the participants took part in a short quiz, in session 2 and 3, the high school students presented their project related to the session topic, and in session 4, an expert in AI gave a 10 min talk on AI and Ethics.

The video recording of all the sessions, Jupyter notebook with programs, and data files were shared with the participants during/after each session. The recordings are available at:

1. Session 1 (Intro to AI and Machine Learning) --
   - https://youtu.be/9_k8HJu2Szk AND https://youtu.be/rWFz0j3roBs
2. Session 2 (Python for Data Analysis) --- https://youtu.be/AcoLl4J4P5Q
3. Session 3 (Machine Learning for Text Analysis) --- https://youtu.be/qRePUyTcr6A
4. Session 4 (Creating Chatbots with Dialogflow) --- https://youtu.be/U9Q_3Y44fE4

We requested for feedback after the session concluded. 8 participants submitted feedback which was very encouraging and positive. All the respondents showed interest in having more events of this type in future.

Finally, ViSER LLC would like to thank ACM-SIGAI for giving this opportunity.

* Session layout

Oct 10 (Intro to AI and Machine Learning)
- Basics of AI and ML
- Basics of python programming (data types, for loops, if statements, python libraries)
- Data and its types (definition of data, qualitative and quantitative data with examples)
- Short Quiz - https://forms.gle/rHMuRcQgmn4mDVhS7
- Online demo –
    - Eliza
    - https://aidemos.microsoft.com/
    - https://experiments.withgoogle.com/collection/ai

Oct 17 (Python for Data Analysis)
- Introduce open data (what is open data, introduce different open data sites such as Kaggle, NYC open data, data.world, etc and how to download data from there)
- Download and analyze data (downloaded "NYC Leading Cause of Death" dataset from NYC Opendata, cleaned, analyzed, and visualized it)
- Student presentation – 10 min
  A high school student presented her project on "Analysis of Covid data for South Carolina by county", using public data

Oct 24 (Machine Learning – Text Analysis)
- Introduction to NLTK, clean and prepare text
- Analyze text for insights (did text analysis of "Romeo and Juliet" by Shakespeare from Project Guttenberg)
- Student presentation – 10 min
  A text analysis project done by a high school student under ViSER where she analyzed her students' essays to get insights about the writing style of each of them

Oct 31 <u>Create Conversation Agent (Chatbot)</u>
- Introduce DialogFlow, a chatbot building platform
- Created a "Pizza Shop" chatbot with DialogFlow which explained *intents* and *entities* and integrated with "Google Assistant" and "Web Demo".
- Expert talk on "AI and Ethics" – given by Dr Biplav Srivastava, Professor, University of South Carolina, SC