SAMPLE REFERENCE PROPOSAL CONTENTS

We have pasted screenshots of 2 proposals from the Py conf. webpage. Copyright for the same belongs to the respective content owners/authors/conf organizers.

Hopefully, you will get a clear idea on what to propose or rather how to draft* the submission, after going through these.

Treat these as sample refs. for your talk proposal submission.

Example-1

Generative AI - From Zero to LLMs

Dipanjan Sarkar (~dipanjan) | 27 Mar, 2024

1 Vote

Description:

The idea of this workshop will be to understand the field of Generative AI starting from zero and getting to the stage where you can build your own applications with large language models. This will be hands-on focused workshop so expect 5% PPTs and 95% hands-on live coding \ demos with Python

Following is the proposed outline:

- Understand what is Generative AI, Key model architectures and the landscape
- Hands-on - Leveraging fine-tuned off-the-shelf transformers for NLP and Vision Tasks
- Hands-on - Fine-tuning a pre-trained transformer model for a specific task - e.g. Classification
- Brief into foundational and fine-tuned LLMs like GPT and ChatGPT
- Prompt Engineering Essentials
- Hands-on - Solving diverse real-world problems including sentiment, summarization, extraction, generation with ChatGPT and Python
- Hands-on - Learn about chaining prompts and tasks with LangChain
- Hands-on - Build a conversational chatbot with LangChain and Chainlit
- Hands-on - Learn and build a custom QA Chatbot on your own data using a RAG System with LangChain and Chainlit

We will do all the hands-on on Google Colab so you do not need to worry about pre-installing anything. Some hands-on may be a walkthrough (fine-tuning etc.) given they may take significant time to run.

Prerequisites:

- Knowledge of Python
  - Basic understanding of Natural Language
  - Processing Have your own API key from Open AI to use ChatGPT (required credit card for billing but you get free 5$ credits): https://platform.openai.com/api-keys
  - OR you can get an API key for Google Gemini which is free (so far): https://aistudio.google.com/app/apikey
  - Have an NGrok key to access deployed apps via Colab (its free): https://dashboard.ngrok.com/get-started/your-authtoken

Content URLs:

A lot of this session will be based on workshops and courses I have done in India and outside India, following links show some examples of such programs and workshops:

- ODSC APAC'23
- ODSC Europe'23
- ODSC Europe'22
- Gen AI Program in Europe
- Gen AI Program in India

Speaker Info:

Hi, I'm Dipanjan, you can call me DJ. I love sharing my knowledge to help others succeed in the field of data science and artificial intelligence. I have spoken in PyCon in the past but last few years I was out of India so really looking forward to doing a session in India this time. Following is a brief about me:

Section: Artificial Intelligence and Machine Learning
Type: Workshops
Target Audience: Intermediate
Last Updated: 27 Mar, 2024

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Example-2

Manim Workshop: From 3Blue1Brown to Khan Academy

Collab Boy (~collab) | 10 Apr, 2024

9 Votes

Description:

Inspired by the Library created by 3Blue1brown, we are excited to propose a workshop on the Manim Community edition. Our workshop is primarily intended for all pythonistas of all levels.

Workshop **Contents**:

1. **How to Generate Long-form Morphing Transformations in Seconds (Tutorial)**
   - Learn efficient techniques to create smooth morphing animations effortlessly. Explore key functions and methods in Manim for generating complex transformations.
2. **Replicating the Creation of a GPT-Transformer Video in Real-Time (Hands-on)**
   - Engage in a practical session where you'll recreate a GPT-Transformer style video using Manim. Gain insights into the step-by-step process of animating complex concepts dynamically.
3. **Understanding Optimal Use of Animation, Camera, Scenes, and Utility Modules**
   - Dive deep into advanced features of Manim to enhance your animation workflow. Discover tips for leveraging camera movements, scene transitions, and utility modules effectively.

Note:- This workshop is intended to be an all in one tutorial for the ManimCE Library and it's applications.

Section: Python in Education and Research
Type: Workshops
Target Audience: Beginner
Last Updated: 10 Apr, 2024

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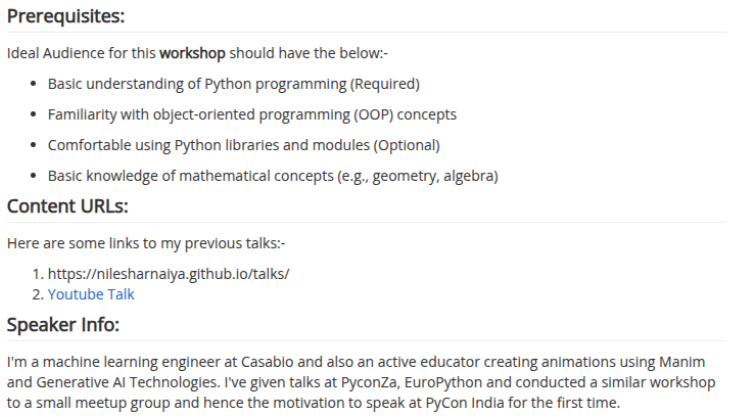

Prerequisites:

Ideal Audience for this **workshop** should have the below:-

- Basic understanding of Python programming (Required)
- Familiarity with object-oriented programming (OOP) concepts
- Comfortable using Python libraries and modules (Optional)
- Basic knowledge of mathematical concepts (e.g., geometry, algebra)

Content URLs:

Here are some links to my previous talks:-

1. https://nilesharnaiya.github.io/talks/
2. Youtube Talk

Speaker Info:

I'm a machine learning engineer at Casabio and also an active educator creating animations using Manim and Generative AI Technologies. I've given talks at PyconZa, EuroPython and conducted a similar workshop to a small meetup group and hence the motivation to speak at PyCon India for the first time.

*Drafting: You may take assistance of GenAI tools like ChatGPT etc. for writing the proposal - but please ensure that you don't end up submitting a hallucinated content which is in no way related to your actual idea/what you thought to propose. Using AI in correcting grammatical mistakes in the proposal is fine but it should NOT ruin the essence or originality of your submission!

Let's come up with some great, engaging ideas that will be insightful for our student community!

Good Luck.