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Contribute to TensorFlow Similarity

TensorFlow Similarity is a Python tool that makes training similarity models with TensorFlow simple and quick. Metric learning is a collection of machine learning approaches for learning to assess similarities and differences between data points from various modalities. It has a wide range of applications, including information retrieval, semantic search, and recommendation systems.

Prospective mentor(s)
- Yusuf Sarıgöz

Why are you the right person to work on this project?

I am a senior computer science major and psychology minor student at Ozyegin University in Istanbul/Turkey. Recently, I have been interested in machine learning,machine learning and deep learning both theoretically and practically. I am trying to gain new knowledge with the courses I have taken and online courses such as udemy, Coursera, DataCamp. I am trying to gain practical experience by making applications with data set via Kaggle. I have experience in tensorflow, keras, pytorch and scipy, which are scikit-learn and deep learning libraries, which are python machine learning libraries, in my projects that I have developed in the courses I have taken. I am doing research using my knowledge in fields such as Neural NEts and CNN on Data Analysis, Computer Vision and NLP technologies. Özyeğin University Computer Science Department Dr. Sedat Özer and I are writing a research paper in the field of Vision Transformer. I have done a literature review in this field and we have prepared a presentation for our teacher. I am studying the data set and technologies that we will use, and I am trying to contribute. In this context, I also want to take part in the development of TensorFlow, one of the technologies I am currently using. I would like to support you and your team in the processes of features that can be changed, improved and added as a tensorflow user already. As a life-time learner, I want to learn from you, put into practice the knowledge I know and have learned, make your work easier and contribute. I have been a good teammate in the social responsibility projects I have been involved in, and I would like to take a supporting role in your team in the same way.

What is your experience with open-source code, if any? Please include links to any open-source projects or contributions (if available).

Unfortunately, I have not contributed to an open-source resource so far, but one of the purposes of participating in this program is to be able to contribute to a resource that will be

used by thousands of people. But for reference, I am sharing my github account and linkedIn account with you.
https://github.com/aylinaydincs , https://www.linkedin.com/in/aylinaydincs/

Have you worked on other related projects? What knowledge have you gained from working on them?

I took classes about machine learning, especially from Prof.Ethem Alpaydın. Also, I took courses from Coursera by Andrew NG.

Please describe your relevant technical background and experience.

I work with deep learning algorithms.

What are the challenges you expect when working on your project? How will you mitigate them?

I expect some bugs or some mismatching with the expected results. I will try different approaches to solve problems. I will approach the problem experimentally. I will search about the problem and ask my mentor.

Please provide a project timeline with clear tasks and how long (in days) you estimate them to take to complete. Highlight important milestones and deliverables.

I can work 30 hours a week for 8 to 10 weeks in the summer period.

Is there anything else you'd like us to know?

I can work as a volunteer student in this project.