Ameer Hassan Saadat-Yazdi

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github.com/ameertg

Education

University of Edinburgh — United Kingdom
BSc(Hons) Artificial Intelligence and Mathematics: First Class Honours — *Sep. 2018 – July 2021*

Projects

Musical Style Transfer | *PyTorch* — Jan - Apr. 2021
- Developed a novel method to train sequence to sequence models with GANs
- Trained model to rewrite pop music in the style of video game music.

A Topological Study of Brain Ageing | *Python, Jupyter notebooks* — Sep 2020 - Apr 2021
- Final year project
- Explored applications of topological data analysis to engineer features for age prediction
- Identified relationships between topological changes and known biomarkers
- Used these insights to detect Alzheimer's and built a classifier with state-of-the-art prediction accuracy

Experience

Data Analysis Intern — Jun 2020 – Sep 2021
eybou.com — *London, UK (remote)*
- Independently developed an end-to-end pipeline to aggregate customer data using AWS and BigQuery
- Designed a data lake solution on AWS
- Created automated reports using SQL and google studio

Business Analytics Intern — Jun – Sep 2017
afiniti — *London, UK*
- Designed solutions to simplify workflow for new employees
- Edited and maintained SQL queries to identify anomalies in the AI system
- Prepared reports and presentations for meetings with clients

Volunteering

Animator — Ongoing
Junior Youth Spiritual Empowerment Program
- Work with 12-15 year olds to understand their role within society
- Facilitate discussions on important social issues
- Guide them to identify solutions to problems facing their communities, plan and undertake lines of action and reflect on what was accomplished

Year of Service — Sep 2017 – Aug 2018
Baha'í Community of Germany — *Offenbach am Main, Germany*
- Engage with local communities to identify and develop latent capacities to improve social harmony
- Focused on working with Arabic-speaking refugees and their surrounding community to find ways for them to integrate and develop the capacity to contribute meaningfully to their environment

Cover Letter

To whom it may concern,

I am a final year undergraduate student in Artificial Intelligence and Mathematics at the University of Edinburgh. Given my interest in developing safe and explainable AI methods, I hope to learn a set of skills which would enable me to contribute meaningfully to the daily experiences of people, both individuals and business, using AI technologies. Which is why I believe that the Knowledge Graph and Arguement Mining PhD opportunity is an exciting project to be a part of.

My professional experiences have given me a strong foundation to begin thinking about how I may contribute to the field. For example, my internship at eyebou, I independently developed an end-to-end pipeline to gather customer data and provide analytics for business decision makers. During this project I learned to work independently and engage with challenging problems while also recognising the necessity of reaching out to colleagues and members of my network to gain insights and learn from their experiences. On the other hand, my voluntary experiences I was involved mainly in collaborative work between members of my team and the people in the communities we were engaging with. During this time I learned several crucial skills such as self-discipline, organisation and planning since I was given a large amount of freedom to pursue my work in the way I thought was most appropriate. Another skill that I have taken from this time was the willingness to experiment with creative solutions and systematically act and learn from experiences.

I have approached my undergraduate studies with the view to expose myself to a broad variety of fields within AI. Some of the topics I have been introduced to include NLP, computational cognitive science, Bayesian inference, computer vision, automated reasoning and machine learning. In taking an interdisciplinary approach to my studies, I try to connect knowledge from the variety of approaches in order to solve problems with a more holistic view. During this academic year I have worked on several full scale deep learning projects and have developed an extensive knowledge of deep learning libraries and methods. These range from implementations of previously developed models were applied in novel settings to designing novel machine learning schemes and algorithms to find new ways to solve problems. I am currently in the process of writing up the research I have undertaken during my final year project for submission to MCCAI. During this project, I have learned to critically analyse the current state of research, critically assess limitations of state of the art methods, construct solutions to address these problems and provide empirical and theoretical justifications for my approach.

To summarise, I am an ambitious person seeking to undertake new challenges and gain a deeper knowledge of the current state of explainable AI, particularly within the context of argumentation mining which I believe has promise for the future of higher level reasoning. Please feel free to get in touch for further information.

Kind Regards,
Ameer Hassan Saadat-Yazdi