Kevlyn Kadamala

PHD STUDENT · UNIVERSITY OF GALWAY

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Professional Experience

Unit for Linguistic Data   *Galway*
RESEARCH INTERN   *February 2022 - August 2022*
- Building a web annotation tool for historical and under-resourced languages using React and Flask

Meraaki Learning   *Delhi*
AI ENGINEER, (INTERN)   *August 2020 - February 2021*
- Developed production ready models and solutions to make learning extra-curricular activities easier and accessible
- Prepared the backend, making use of Serverless functions using NodeJS and PostgreSQL as the database

Dew Solutions   *New Delhi*
CHATBOT DEVELOPER, (INTERN)   *June 2020 - July 2021*
- Built a COVID19 survey bot using the Rasa framework that aids the research and analysis of awareness in society
- Deployed the bot on DigitalOcean's Droplet and integrated it with a WordPress website and a Facebook Messenger bot

Abacus Software Services   *Mumbai*
COMPUTER VISION RESEARCHER, (INTERN)   *March 2020 - June 2020*
- Built a tracking system that tracks humans in a hallway, using YOLOv3, a correlation tracker with ResNet as a feature extractor
- Side projects included a gesture recognition system and a database with visualization web application

Education

National University of Ireland   *Galway*
MSC IN ARTIFICIAL INTELLIGENCE   *2021 - 2022*
- Completed modules that include: AI and Ethics, Principles of Machine Learning, Optimisation, Deep Learning, Agent, Multi-Agent Systems and Reinforcement Learning
- Completed thesis titled: Investigating a Neuro-Evolutionary Approach to Text Classification

Fr Conceicao Rodrigues College of Engineering   *Mumbai*
BE IN COMPUTER ENGINEERING   *2017 - 2021*
- Final CGPA: 9.44
- Winner of the MacHacks AI Hackathon 2021
- Winner of the Smart India Hackathon 2020
- 1st Place in the SPIT Hackathon 2020
- 2nd Place in the DMCE Hackathon 2020
- 1st Place in the VCET Hackathon 2019
- 4th out of 400+ teams in the Tata AI Hackathon
- Participated in other hackathons and coding events

Projects

IMAGE CAPTIONING USING PYTORCH, GITHUB, WANDB   *2021*
- Built an image captioning model using InceptionV4 model and RNNs
- Implemented a CNN Encoder and a RNN Encoder with Attention
- Visualised the training loop and outputs with Weights and Biases

DIFFERENTIABLE AUGMENTATION FOR GANS, GITHUB, WANDB *2021*
- Minimal implementation of Differentiable Augmentation for Data-Efficient GAN Training
- Implemented with Deep Convolution Generative Adversarial Network and Self-Attention Generative Adversarial Network
- Visualised training with Weights and Biases
- Used Kornia, a differentiable computer vision library for PyTorch for augmentations

FACE GENERATION FROM TEXTUAL DESCRIPTION, GITHUB, WANDB *2020 - 2021*
- Generating faces based on textual descriptions using Generative Adversarial Networks
- Extended upon an existing algorithm to create captions with the attributes provided in the CelebA dataset, to generate single as well as N captions per image
- Integrated Sentence BERT to encode these descriptions into sentence embeddings
- Performed a comparative study of three models - DCGAN, SAGAN and DFGAN, by using these sentence embeddings along with a latent noise as the inputs to the different architectures
- Calculated the Inception Scores and the FID values to compare the output images across different architectures

Publications

PUBLISHED

K. Deorukhkar, **K. Kadamala**, and E. Menezes, 'FGTD: Face Generation from Textual Description', in Inventive Communication and Computational Technologies, Singapore, 2022, pp. 547–562. doi: 10.1007/978-981-16-5529-6_43

Teaching Experience

Present	**Python Programming**, Tutor	*GrindsWorld*
Spring, 2022	**CT1102 - Programming II**, Teaching Support Staff	*NUI, Galway*
Spring, 2022	**CT1100 - Computer Systems**, Teaching Support Staff	*NUI, Galway*

Skills & Activites

SKILLS

- Python
- Deep Learning - Tensorflow, PyTorch
- Data Science Libraries - Pandas, Numpy, Scikit

- Frontend Web Development - HTML, CSS, JavaScript, React, Vue
- Backend Web Development - Node, Flask, PHP
- Database - MySQL, PostgreSQL, MongoDB, Redis

ACTIVITES

Completed LIFT Facilitator training at NUIG in September of 2021

Captained the undergraduate college football team from 2019 to 2021