

Adeep Hande

Final Year (B.Tech)
Computer Science & Engineering
at IIT Tiruchirappalli
CGPA:8.08 till 6th Sem

Udupi, Karnataka-576213, India
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Links

Github:// [adeepH](#)
LinkedIn:// [Adeep Hande](#)
Google Scholar:// [Adeep](#)

Skills

OS
GNU/Linux, Windows

LANGUAGES
C/C++, Python, Julia

FRAMEWORK
Pytorch, Transformers,
Tensorflow, Flutter, Fast.ai

DATABASES
MySQL, MongoDB

OTHERS
AWS, Git, Vim,
Sublime Text, Pycharm,
Android Studio, Coral Draw,
Google Colaboratory, Photoshop

Coursework

Deep Learning Specialization (Coursera)
NLP Specialization (Coursera)
Neural Networks
Discrete Mathematics
Operating Systems
MySQL
Data Analysis

Education

2018-2022
B.TECH. IN CSE
IIT TIRUCHIRAPLLI
CGPA : 8.08/10(Expected)

07/2021
SUMMER SCHOOL
Machine Learning
Instituto Superior Técnico (IST),
Lisbon, Portugal

01/2021
WINTER SCHOOL
IIT Kharagpur
Fairness, accuracy and Transparency
in AI (FACCT)

Experience

05/2021-07/2021 **Raaga Products Pvt Ltd.** **Research Intern**
Worked on the project Anomaly Detection using transformer-based GAN. Dataset: Aptos 2019

07/2020-NOW **National University of Ireland Galway** **Research Intern**
Worked on several projects for developing language technologies in Dravidian Languages. Published 10+ papers in the domain of Natural Language Processing.

07/2020-10/2020 **Raaga Products Pvt Ltd.** **Machine Learning Intern**
Applied various Machine Learning algorithms such as Alexnet, GAN, VGG-16, CNN, for classifying Diabetic Retinopathy in the eye. Generated labels for another dataset by using semi-supervised approaches.

Publications

- [12] A Language-aware Semi-supervised approach for Offensive Language Identification in Dravidian languages [Under Review]
- [11] Attentive fine-tuning of Transformers for Translation of low-resourced languages
- [10] Do Images really do the talking? An analysis of Tamil Troll meme detection
- [9] Hope Speech detection in under-resourced Kannada language
- [8] Benchmarking Multi-Task Learning for Sentiment Analysis and Offensive Language Identification in Under-resourced Dravidian Languages
- [7] Leveraging Pretrained Language Models for Multilingual Protest Detection
- [6] Domain Identification of Scientific Articles using Transfer Learning and Ensembles
- [5] Troll meme Classification: You need to Pay more Attention
- [4] Transfer Learning for Offensive Language Detection in Dravidian Languages
- [3] There is always hope in Transformers
- [2] Evaluating Pretrained Transformer-based Models for COVID-19 Fake News Detection
- [1] KanCMD: Kannada CodeMixed Dataset for Sentiment Analysis and Offensive Language Detection

Projects

07/2020 **Image Super-Resolution (SRGAN)** **Computer Vision, PyTorch**
Implemented a robust Generative Adversarial Network to increase the resolution of a given image using Pytorch.

05/2021 **Text to Image** **Multimodal Analysis**
Developed an algorithm inspired by OpenAI's CLIP to create a vision-language model trained from scratch. Generated target images based on the Cosine Similarity between the image embeddings.

06/2021 **English to Irish Translation System** **Machine Translation**
Worked on developing several approaches for Neural Machine Translation such as Zero-shot learning, back-translation with T5, mBART, and M2M100.