Aishwarya Harpale

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EDUCATION

RUTGERS UNIVERSITY
Master of Science, Computer Science
Aug 2021 - May 2023| NJ, USA

SAVITRIBAI PHULE PUNE UNIVERSITY
Bachelor of Engineering, Computer Engineering
2016-2020 | Pune, India
CGPA: 9.04 / 10.0

LINKS

Website: **aish-where-ya**
Github:// **aish-where-ya**
LinkedIn:// **aishwaryaharpale**

SKILLS

Languages
Java • C • C++ • Javascript
Python • HTML
Databases
MySQL • MongoDB • Firebase
Machine Learning
Tensorflow • Keras • OpenCV • Tensorboard
Other Technologies
Docker • Flask • CUDA • Git

COURSES

- Introduction to Data Structures and Algorithms
- Mathematical Foundations of Data Science
- Introduction to Artificial Intelligence

EXPERIENCE

CAKESOFT TECHNOLOGIES | Software Developer
Sept 2020 - July 2021
Developed Web Applications, designed various APIs and optimized performances of various microservices. Also wrote CI/CD pipelines for deployment of Web-Apps.

GOOGLE SUMMER OF CODE - LIBREHEALTH | Open Source Developer
May 2020 – Aug 2020

Worked on Low Powered Models for Disease Detection and Classification for Radiology Images. Experimented on models such as DenseNet, Inception, etc. using quantization and pruning techniques to improve model performance.

PERSISTENT SYSTEMS LTD. | Project Intern
June 2019 – May 2020

Research in the field of Explainable AI and Interpretable Machine Learning involving identification of biases in models trained on healthcare (Breast Cancer Prediction) and financial risk assessment (German Credit Risk Prediction) datasets.

PUNE INSTITUTE OF COMPUTER TECHNOLOGY | Research Intern
May 2019 - Dec 2019

Research conducted on Multimodal Summarization under the sub-category of Image-based summaries. Implemented feature selection in images using CNNs and an attention-based transformer architecture and generated embeddings of keywords for effective representations of the language.

PROJECTS

CHEST-XRAY CLASSIFICATION AND LOCALIZATION
Developed a system for classification and localization of Chest-XRay images using DenseNet, Resnet and VGG. Built a website using Bootstrap and deployed it on a Flask server for the user to diagnose diseases.

PLANT DISEASE DETECTION USING AN IOT DEVICE
Developed a custom model using CNNs to detect diseases in crops and deployed this model on a Raspberry Pi device for real-time predictions. Integrated this system with Cloud to generate reports on an Android app.

PUBLICATIONS

[1] A. Abid, P. Sinha, A. Harpale, J. Gichoya, and S. Purkayastha. Optimizing medical image classification models for edge devices. *Accepted at DCAI 2021*.

[2] U. Shah and A. Harpale. A review of deep learning models for computer vision. *2018 IEEE Punecon*, 2018.