Aishwarya Harpale

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EDUCATION

RUTGERS UNIVERSITY
Master of Science, Computer Science
Aug 2021 - Present| 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 • SQLite
Machine Learning
Tensorflow • Keras • OpenCV • Tensorboard
Cloud Services
ThingSpeak • Firebase
Other Technologies
Docker • Flask • CUDA • Git

OTHER ACTIVITIES

Workshop Head - PICT ACM Student Chapter
Teaching Assistant - Google Developer Students' Club
Teaching Assistant - PICT ACM Student Chapter
Technical Head - PICT ACM Student Chapter(W)
Class Representative - Pune Institute of Computer Technology
Member - Association for Computing Machinery, Google Developer's Group - Pune and PyData - Pune.

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

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.

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.

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.