

Archan Lagoo

<https://github.com/aklagoo/>

Email : alagoo@asu.edu

Mobile : +1 (602) 756-3428

EDUCATION

- **Arizona State University** Tempe, AZ
Master of Science in Computer Science; GPA: 3.89 Jan. 2021 –
- **KJSIEIT (University of Mumbai)** Mumbai, India
Bachelor of Engineering in Computer Science; CGPA: 8.0/10.0 Aug. 2016 – Oct. 2020

PROJECTS

- **Out-of-Order (OOD) Generalization of Min/Max Operations** Apr. 2021
Python, PyTorch, HuggingFace
 - Utilized T5 to identify minimum/maximum value in a list of numbers in a sentence.
 - Generated a pre-training dataset with multiple formats and masking methods for OOD generalization.
 - Achieved train-test-validation accuracies 76.68, 74.23, and 76.3 for 3/5 2-digit numbers.
 - Improved the mean OOD accuracy from 18.74 w/o pre-training to 25.35 with pre-training.
- **Dataset Creation via Web Scraping** May 2020
Python, BeautifulSoup, OpenCV, NLTK
 - Automated file downloads, data extraction, filtering and exports to generate a dataset from WARC files.
 - Performed language detection, adult content filtering, and image-caption matching.
- **Text Segmentation with Fiction** May 2020
PyTorch, Tensorflow, NLTK
 - Aimed to segment novels based on emotions and tagging segments.
 - Built a data pipeline with text preprocessing, training, evaluation and visualization.
 - Tested various CNN-LSTM architectures with soft dot attention.
- **Copyist** Aug. 2021 – Present
NodeJS, ReactJS, socket.io, Firebase Realtime Database
 - Built a socket-based clipboard data transfer application with data storage in Firebase Realtime Database.
 - Currently implementing a ReactJS front-end for live content editing and copying.
- **Evader-Pursuer in Gazebo** Apr. 2021
Python, OpenCV, Gazebo, ROS
 - Built a script to pursue an evading human via a robot in two environments via maps and camera input.
 - Detected evader using YOLO-v3 and navigated via gmapping.

INTERNSHIP

- **KJSIEIT** Sion, Mumbai
PHP, JQuery, SQL July 2018
 - Wrote code for an agricultural marketplace admin panel serving over 2000 users.
 - Built views, controllers, models interfaced with Oracle DB, and server-side and client-side validation.

PROGRAMMING SKILLS

- **Languages:** Python, Javascript, PHP, SQL, C++, Java
- **Technologies / Libraries:** MERN Stack, PyTorch, Tensorflow
- **Softwares:** Adobe Photoshop, Adobe Illustrator, Affinity Designer, Affinity Publisher

EXTRA-CURRICULAR

- **Aura, KJSIEIT** Sion, Mumbai
Literature Head, Comic Head, Magazine Secretary 2016 - 2018, 2019-2020
 - Created posters and design layouts along with articles and scripts.
 - Oversaw committee activities and magazine production, including design and print as a Magazine Secretary.