# Shashank Priyadarshi

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## EDUCATION

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| 2019-2023 Ongoing | **B.Tech in Computer Science and Engineering with Artificial Intelligence**, *Amrita Vishwa Vidyapeetham*, Kollam, Kerala, India. <br> *CGPA: 8.6/10* |

## EXPERIENCE

**January 2022** — **Machine Learning Intern**, *Saptang Labs*.
- Worked on extracting the data from Ministry of Corporate Affairs defaulters list.
- Performed textual pre-processing so that it can be integrated with the MCA backend.
- Worked on extracting the relationship between various articles based on the MCA director and company identities.

**September 2021 - November 2021** — **Android Engineering Intern**, *The Atom EI*.
- Worked with the team of 4 in the development of release v1.12 and v1.13.
- Added the subscription model and helped in integrating the video tutorial in the fitness app.
- Fixed the issues with audio and daily articles in meditation app.

**April 2021 - June 2021** — **Research Intern**, *RoboTutorLLC, Carnegie Melon University*.
- Worked on the RoboTutor Android app to percieve infants activity on the tablet with the help of the games present in the app.
- Helped in analysing the logs from the activities in the app.

**December 2020 - April 2021** — **Traboda**, *Frontend Developer*.
- Worked on the frontend of the end to end cyber-security learning platform such as modified challenges and category pages.
- Integrated support to track contests with various cyber security metrics.

**May 2020 - September 2020** — **Google Summer of Code**, *Student Developer, The Mifos Initiative*.
- Worked on the android client app and integrated new features such as GIS support, notification integration, KYC/onboarding, UI enhancements, localization modification, and other bugs.
- Involved in the continuous development of the app with integration of SDK and new UI component.
- Completed the whole documentation

**January 2020 - Present** — **Maintainer**, *The Mifos Initiative*.
- Involved with continuous contribution in the community apps developed over Fineract 1.5x.
- Handling Android Client app and SDK.
- Helping the other contributors to develop a common UI component across all applications.
Project Link: `https://github.com/openMF/android-client`

## ACHIEVEMENTS

- Selected for 3 weeks long **MaLGa Unige summer school** which covered mathematical portions related to fields such as Computer Vision, Regularization, and Deep Learning.
- Selected for **MLSS 2021 Taipei summer school** based on various topics related to Machine Learning.
- One of the **top 3 contributor** to the **Mifos Android Client**.
- Won **best Digi Hardware Key** and **best Google Cloud** category prize in Hack-ccessible and Mental Health Hackathon organised by Major League Hacking respectively.

## TECHNICAL PROJECTS

**September 2021 - December 2021** — **AmAutolab**.
Dr. Gilad Gressel, Amrita Center for Wireless Networks and Applications.
Worked on auto assignment evaluation using Python scripts with proper evaluation schemes and dynamic problem handling. Problems can be updated and mapped with decided scoring and grading patterns. This is developed for the Autolab by CMU with configuration changes. **Tech stack** - Python, shell scripting, and YAML.

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| October 2021 | **Galaxy GAN**. <br> This project is based on galaxy image super resolution using astroNN dataset. This project is based on implementation of super resolution generative adversarial networks(SRGAN paper), performed the case study on astroNN dataset. **Tech stack** - PyTorch and Python Project Link - `https://github.com/iamsh4shank/SRGAN` |
| December 2019- present | **Android Client - Mifos**. <br> Android Field operation application based on Mifos X is a robust core banking platform that is developed for field officers using which they process transactions, keep track of their client's data, center records, group details, and manage different types of accounts (loan, savings and recurring) of the client. **Tech stack** used- Android, Kotlin, RxJava. Project Link - `https://github.com/openMF/android-client` |
| May 2021 | **Galaxy Classifier**. <br> This project is based on morphological classification using Deep ConvNet. It shows how computational cosmology could help to make hard classification easy. The galaxy can be classified in various ways, they can be in three classes namely - Elliptical, Spiral, Irregular. **Tech stack** - TensorFlow, Python Project Link - `https://github.com/iamsh4shank/gal-classifier` |
| June 2021 | **Tweet Analyser**. <br> Implemented a Tweet Analyser using Python, it will classify your tweet into few labels such as abusive, non-abusive, hate, and humour. It fetches the tweet on particular query using Twitter API and after filtering analyses the tweet. **Tech stack** used- Python, Twitter API, fastText. Project Link: `https://github.com/iamsh4shank/Tweet_Analyser` |
| December 2020 | **Imfusion**. <br> An Open Source image fusion desktop app. It supports image fusion using Discrete wavelet transformation. **Tech Stack** used - Python(Deep Learning), PyQT. Project link - `https://github.com/iamsh4shank/Imfusion` |

## COURSES AND MOOC

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| April 2021 | **Neural Networks and Deep Learning**. <br> Issuing Organization: DeepLearning.AI. <br> Certificate Link: `https://coursera.org/share/2bffc5b8777c05b9257f13d87740f4a2` |
| August 2020 | **Data-driven Astronomy**. <br> Issuing Organization: Coursera. <br> Certificate Link: `https://coursera.org/share/44152fa1dc7ae19dc8bb006ec54320b3` |

## VOLUNTEERING

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| March 2021 - August 2021 | **Google Summer of Code**, *Mentor, The Apache Software Foundation*. <br> - Mentored for the Android SDK project and Android Client app for the next release v7 with SDK integrated and new features. <br> - Worked with other community members to release the SDK with wrappers developed over Fineract 1.5x such that it can be used in other Fineract based applications. |
| August 2020 - July 2021 | **Google Developer Student Club**, *Lead, Amrita School of Engineering*. <br> - Contributed with other leads in organising various sessions based on Android Development and web development. <br> - Lead a project with other core team members to help students to learn basics of software development and android. |
| September 2021 | **Introduction to AI**. <br> This workshop was held by the amFOSS and Team Bi0s for the school students in the field of web development, AI, Game development, etc. I was responsible to take sessions for Introduction to AI and Machine Learning. |
| April 2021 | **Android Development**. <br> This workshop was held by the placement cell of my college, I was responsible to take sessions for Android Development using Java. |
| August 2019 - Present | **Member and Mentor**, *amFOSS*. <br> - Mentoring my juniors to get them started with open source contributions and come up with innovative ideas. <br> - Help manage the community of 80+ members along with organizing various events and leading the social media campaigns. |

## TECHNICAL SKILLS

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| OS | Linux, Windows, MacOS |
| Languages | Python, Java, Kotlin, C, Dart, MongoDB, React, Matlab |
| Tools | PyTorch, Tensorflow, OpenCV, Git, ROS |

## INTERESTS

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| Technical | Computer Vision, Research in Deep Learning, Visual Recognition, NLP, Contributing to Open Source |