# Supreeth S Karan

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## EDUCATION

**IIIT HYDERABAD**
B.Tech. and M.S. by Research
Expected Graduation : 2022
**NARAYANA JR. COLLEGE**
Senior Secondary
Grade : 90%
**CMR MODEL HIGH SCHOOL**
Secondary
Grade : 93%

## COURSEWORK

**UNDERGRADUATE**
Computer Programming
Data Structures
Computer Systems & Organization
Digital Image Processing
Communication Networks
Operating Systems and Algorithms
Statistical Methods in AI

## ACHIEVEMENTS

• **Academia Excellency**
class X,XI & XII
• **Limca Book of Records** Holder
• **CCRT Scholarship** (Bharatanatyam)
*(Ministry of Culture Government of India)*

## POSITIONS

• **Program Volunteer** Mozilla Internet Health Hackathon'19
• **Teaching Assistant** for Arts *(2x)*
• **Advisory Member** of Cultural Committee IIIT HYD
• **Member** of Dance Club IIIT HYD
• **Cultural Secretary** at school 2012-14

## SKILLS

**PROGRAMMING**
Java • Python • Javascript
Matlab • C • C++ • CSS
MySQL • Shell

**FRAMEWORKS**
Fineract • Apache • Spring MVC
SpringBoot • Microservices
Hibernate • JDBC
Angular • AngularMaterial

**OPERATING SYSTEMS**
MacOS • Linux • Windows

## EXPERIENCE

**GOOGLE SUMMER OF CODE** | The Mifos Initiative
Machine Learning Scorecard for Credit risk Asssessment
May 2019 - Aug 2019 | Remote
- Developing UI Interfaces for Credit Risk Assessment Scorecard,building API layer and Database for setting up Features, their relation and criteria for risk assessment of a potential/existing loan.
- Implementation of Statistical and Machine Learning methods for credit scoring, predicting potential NPA's, fraud detection and other activities.

**GOOGLE CODE-IN** | The Mifos Initiative
Mentoring students towards contribution in open source
Dec 2019 – Jan 2020 | Remote
- Worked along with the organisation mentors in setting up the tasks which mostly involved minor bug fixes,challenges.
- Introducing/Teaching Students Coding, Documentation and Training, Outreach or Research,Quality Assurance and Design.

**BACK-END DEVELOPER** | Apache Software Foundation
Oct 2018 - Present | Remote
- Developed a new backend codebase in Python/Django working inline with the currently developed web-app UI for Credit Risk Project.
- Documentation of Remote Debugging docs, Instructions guide for setting up Fineract locally on Ubuntu Server.

**VIRTUAL-LABS** | IIIT HYDERABAD
Mar 2019 | Hyderabad, IN
- Worked on improving UI issues related to Feedback pages and solved minor bugs present in the web pages.

## PROJECTS

**IMPLEMENTATION OF FILE SHARING PROTOCOL**
With functionalities such as downloads,uploads and indexed searching
- A 2 client system (acting as servers) listening to the communication channel for requests and waiting to share files (avoiding collisions).
- Using an application layer protocol(like FTP/HTTP), incorporation of MD5 checksum to handle file transfer errors.

**ALGORITHM FOR DETECTING LINES BASED ON PRIMITIVE CONNECTION**
- Implemented a research paper based on Line-detection in grey-scale images.
- A low-level processing which has many applications such as road detection in remote images and vessel detection in medical images.

## RESEARCH EXPERIENCE

**COGNITIVE SCIENCE LAB**
Aug 2019 – Present | Hyderabad, IN
- Pursuing master degree under **Prof. Dr.Kavita Vemuri** on Study of Spine Kinematics using ML model, Motion Capture (OptiTrack 3D tracking system.
- Developing a Real-time Pose estimation system where the movements of Spine are recorded using a single webcam which outputs an analysed reports on function of individual's physical activity , age/gender and body mass index.