

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 ASSESSMENT

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

ALGORITHM FOR DETECTING LINES BASED ON PRIMITIVE CONNECTION

- An Image processing project based on line detection in gray scale images.
- An Image processing technique which has many applications in object detection such as road detection in remote images and vessel detection in medical images.

IMPLEMENTATION OF FILE SHARING PROTOCOL

- 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.

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.