

SURAJ MANE

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Education

Virginia Tech

Master of Engineering in Computer Science

May 2022, GPA - 3.9

Blacksburg, VA

Sinhgad Academy of Engineering

Bachelor of Engineering in Computer Engineering

May 2017, GPA - 3.5

Pune, India

Relevant Experience

Scribes and Notes Recommender System | Python | Research and Development

September 2021

- Working on a personalized recommender system for students to get lecture notes and scribes.
- User needs to provide a search query and can choose a difficulty level(three ordinal values Hard, Medium and easy).
- The results returned would be links to lecture notes and scribes which are open source, so the user doesn't need to create account or sign up which is usually the case now.

Movie Ratings | Python | Web crawling

August 2021

- Designed a web crawler in Python which accepts movie name and gets the user ratings from Rotten Tomatoes.
- Used BeautifulSoup instead of Selenium which gets results from the website within seconds avoiding the whole driver API and no limitation on number of requests.

M-Ernest | Python | Research Intensive

May 2021

- Improved Ernest, a resource configuration prediction tool for big data load, to add data skew as a extra parameter.
- Modified, tested and plotted the results to show that the added skew parameter does improve the accuracy of prediction by 3-4percentage

Larsen And Toubro Infotech

Sep 2017 - Nov 2020

Quality Engineer

Pune, India

- Worked in a Test Data Management team following Agile methodologies for development.
- Created and documented from scratch all the required set of SQL queries used on daily basis by the team for mining data from Production, performing analysis and creation of automated scripts.
- Developed mappings in Informatica Powercenter to extract, transform and load data from various sources to targets which helped the team to achieve high quality, reliable data.
- Created automation scripts in Java Selenium to automate Traveler's web UI for Auto and Home Policy issuance.

Look Based Media Player | Java | Research and Development

December 2016

- Created a media player which pauses when the viewer looks away from the screen and resumes when he/she looks back.
- This was done by training the image detection algorithm Viola Jones using the training samples and then using it to detect and create bounding boxes around faces to play or pause the media player in real time.

Technical Skills

Advanced level: Python, Java Selenium, C++, HTML/CSS, SQL

Working knowledge: PySpark, Map-Reduce, PowerBI, Tableau, JavaScript, D3, Linux, VBscript, GitHub

Tools and frameworks: IntelliJ Idea, Eclipse, Google Colab, Jupyter Notebook, Docker, WordPress, Mainframe's DB, Hadoop, Agile development

Journals

A survey of face detection algorithms

International Conference on Inventive Systems and Control ICISC

Jan 2017

Pune, India

Leadership

Virginia Tech Graduate School

Graduate Student Ambassador

September 2021 – Present

Blacksburg, VA

- Work with Office of Recruitment, Diversity, and Inclusion to provide information and resources to Graduate students.
- Mentor new students and equip them with resources available at Graduate School to make their transition smooth.