SURAJ MANE

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Education

Virginia Tech	**May 2022, GPA - 3.9**
Master of Engineering in Computer Science	*Blacksburg, VA*
Sinhgad Academy of Engineering	**May 2017, GPA - 3.5**
Bachelor of Engineering in Computer Engineering	*Pune, India*

Graduate courses taken

Models of human computer interaction | Virtual environments | Software project management | Ethics and professionalism | Information retrieval | Information Visualization | Advanced machine learning | Data Analytics | Database management systems

Relevant Experience

Course Planner for College | Python, Web Development | Research and Development   **Januuary 2022**
- Working on designing a course planner for Master of Engineering of CS department at VT for my Capstone project.
- It will offer a number of possibilities to a MEng student to help plan their degree with which subjects to take in which semester and plan their POS(Plan of Study) better.

Object Detection and Sonification | Python, JavaScript | Research and Development   **September 2021**
- Created a tool keeping in mind visually impaired people which when given an image returns the objects detected and also converts them to sound based on the selection of one or all options.
- User needs to upload an image which is processed at back end using pre-trained object detection model YOLO.
- The results of that model are passed no to the Observable using a CSV which implements the various functions for text-to-speech conversion.

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.

M-Ernest | Python | Research Intensive   **May 2021**
- Modified Ernest, a resource configuration prediction tool for big data load to add data skew as an extra parameter.
- Modified, tested and plotted the results to show that the added skew parameter does improve the accuracy of prediction by 3-4 percentage.

Larsen and Toubro Infotech   **Sep 2017 - Nov 2020**
Software Developer   *Pune, India*
- Worked on management and creation of tools and methods in Java and Informatica needed to synthesize test data in an Agile team of Personal Insurance domain on Travelers Insurance company.
- Created, documented and optimized all the required set of SQL queries used on daily basis by the team for mining data from various sources like Teradata and Hadoop.
- Developed mappings in Informatica Powercenter to extract, transform and load data from various sources to targets which helped the team to achieve high quality and reliable data faster than before.
- Created automation scripts in Java Selenium to automate Traveler's web UI for Auto and Home Policy issuance of the test bed.
- Spearheaded complex projects and delivered, trained and lead over a team of 6 new hires.
- Expertise in client management and retention in a service based organization.

Skills

Advanced level: Python, Java Selenium, C++, HTML/CSS, SQL
Working knowledge: PySpark, Map-Reduce, PowerBI, Tableau, JavaScript, D3, Linux, VBScript, GitHub, Latex
Tools and frameworks: Intellij Idea, Eclipse, Google Colab, Jupyter Notebook, Docker, WordPress, Mainframe's DB, Hadoop, Agile development methodologies, PyCharm,
Soft Skills: Communication, Team player, Time management, Adaptable, Inter-personal relationship, Leadership

Journals

A survey of face detection algorithms	**Jan 2017**
International Conference on Inventive Systems and Control ICISC	*Pune, India*

Leadership

Virginia Tech Graduate School   **September 2021 – Present**
Graduate Student Ambassador   *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.