Shreedhar Govil

shreedhargovil@gmail.com | sdhar16.github.io

EDUCATION

Indraprastha Institute of Information Technology, Delhi New Delhi, IND
Bachelor of Technology in Computer Science and Applied Mathematics, 8.41/10 *Aug. 2016 – Aug 2020*

Amity International School, Saket New Delhi, IND
CBSE Board, 92.2% *Apr 2012 - Apr 2016*

RESEARCH INTERESTS

Artificial Intelligence, Machine Learning, Computer Vision, Natural Language Processing, Robotics

RESEARCH EXPERIENCE

Summer Intern May. 2018 – July 2018
Indraprastha Institute of Information Technology, Delhi *New Delhi, IN*
- Developed Machine Learning algorithms to identify species and/or individuals.
- Worked with camera trap images obtained from the field/forest.
- Ensured reliable detection and identification of animals in low resolution images.

PROJECTS

Audio Visual Consistency Detection | *Python, Pytorch, OpenCV* Jan 2019 – Nov 2019
- Developed machine learning models to detect deep fake videos.
- Implemented GAN architecture to generate video embeddings by training only on original video dataset.
- Used anomaly detector on video embeddings to classify fake videos from original videos.

Rain Remover | *Pytorch, Python, Git* Jan 2019 – April 2019
- Studied several methods to clear rain from rainy images.
- Developed image processing and CNN models to filter images.
- Comparative study with different methods to gauge performance.

Vehicle Driver Assistant | *Python, openCV, Tensorflow* Aug 2018 – Nov 2018
- Developed a vehicle driving assistant using image processing algorithms.
- Detected lanes using a combination of algorithms like hough transforms and canny edge detection.
- Implemented traffic signboard detection using pre-trained DL models.

SemiGO | *Android Studio, Firebase, Git* Jan 2020 – April 2020
- Developed an Android App to connect users travelling to same direction at similar times.
- Interface designed using UI\UX guidelines and made such that it is very intuitive to the user.

Samurai | *Arduino, C* Jan 2017 – April 2017
- Constructed a 3D printed hand that can be controlled with gloves sensors, voice commands and muscle sensors.
- Useful for amputees and in harsh environments.

MAMC Anaesthesia Update | *HTML, CSS, Jekyll, GitHub* Aug 2019 – Sep 2019
- Developed the event website for Maulana Azad Medical College (MAMC) Anaesthesia Update.
- Ensured smooth function of the event by managing registrations and announcements.

WORK EXPERIENCE

Business Analyst | *GENPACT* Jan 2021 – Present
- Providing solutions in text mining and computer vision.
- Using large data sets and using them to identify trends and reach meaningful conclusions.
- Tackling business problems through data modeling, algorithms and predictive modeling.

Teaching and Mentoring Experience

Teaching Assistant | *Theory of Computation*   Jan 2020 – May 2020
- Conducted tutorials and doubt clearing classes for students.
- Evaluated exams sheets, quizzes and assignments.

Teaching Assistant | *Introduction to Engineering Design*   Jan 2019 – April 2019
- Ensured smooth functioning of lectures, labs and project showcases.
- Responsible for evaluating assignments.

Teaching Assistant | *Introduction to Programming*   Aug 2018 – Nov 2018
- Taught basics of Python and programming during tutorials and labs.
- Evaluated lab assignments and lab exams.

Technical Skills

Languages: Java, Python, C/C++, R.
Developer Tools: Git, Docker, VS Code, Android Studio.
Libraries: Scikit-learn, Pandas, NumPy, Matplotlib, Pytorch, Tensorflow.

Volunteer Experience

Women Who Code, Delhi | *Volunteer*   April 2020 – June 2020
- Wrote a 3-part introductory tutorial in digital image processing.

MAMC Hospital | *Patient Care Volunteer*   April 2017 – May 2017
- Responsible for distributing food and medicines to low income patients at MAMC hospital, New Delhi.
- Distributed donation of bedding and clothing to paediatric patients.

Interests and Hobbies

- Reading

- Exercising