

# AISHWARYA VENKATRAJU

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## EDUCATION

### Stony Brook University - New York (SBU)

MS in Computer Science

Aug'21 - Expected Dec'22

Stony Brook, USA

[Graduate Research Assistant]

Coursework : Data Science, Artificial Intelligence, Human Computer Interaction, Network Security, Algorithmic Problem Solving Techniques

### Sir M. Visvesvaraya Institute of Technology, Bangalore

B.E. in Computer Science

Aug'17 – Aug'21

Bangalore, India

[Google Student Ambassador]

Coursework : Data Structures, Design and Analysis of Algorithms, Database Management, Software Engineering, Artificial Intelligence, Machine Learning

## WORK EXPERIENCE

### Google |

Aug 20 - Jul'21

Cloud Facilitator → Developer Community Lead

Bangalore, India

- Helped evangelize technology and raised strong industry-standard skills by aiding in management at various junctures subsidized by Google, featuring in a plethora of talks mainly focused on Google's technologies, community building
- Leveraged the concepts that powers apps like Google Search, Email, and YouTube with hands-on labs for participants in the area of Cloud technologies
- Assessed each individual's strengths and delivered mentoring to improve upon weak skill levels.

### Indian Institute of Science (IISc), Project Intern

Aug'19 - Feb'20

Computational and Data Sciences

Bangalore, India

- Designed and demonstrated an autonomous mechanism through an emerging form of IoT for managing trash
- Proposed a system that employs a drone and assisting a Robot Operating System to it for controlling the path planning and perception algorithm

### GirlScript Summer of Code

Feb'19 - Apr'19

Google Maps API, Travel safe

Bangalore, India

- Enhanced the NLP algorithm to improve the text-based conversation and make it more predictable and accurate
- Simplified safety for women in the digital world by making it easy to stay connected to the nearest police station

## ACADEMIC PROJECTS AND RESEARCH

### 3D CT reconstruction from Biplanar X-rays using GANs and Deep Learning

Stack: PyTorch, TensorFlow, Sklearn,

Jul'22 - Sep'22

- Employed a single-view X-ray image to learn about the fake images, incorporate feedback from the discriminator
- Predicted the mean squared error loss (MSE) and generative adversarial loss resulting in a high quality CT volume both visually and quantitatively

### Indoor Localization and tracking in a multi-resident area

Stack: Arduino Ultrasonic Protocol

Jan'22 - May'22

Manifested device-free localization techniques by incorporating ultrasonic sensors and collectively using arduino for achieving an independent and autonomous living

Stony Brook, NY

### Understanding Flight Delays

Stack: Python, Matlab, Sklearn, Django

Oct'21 – Dec'21

- Preprocessed weather dataset for training a Decision Tree Model to calculate the performance metrics such as Variance score, R2 score, Mean Absolute Error
- Analyzed the data and time values by implementing a Django web application to get hourly predictions of weather for the period of the flight's scheduled departure concerning date, time, airline, origin airport

## TECHNICAL SKILLS.

**Programming Languages** : Java, Python, C++, C, Scala, LATEX, HTML5, CSS, JavaScript

**Database and Operating Systems** : Teradata, MySQL, DB2, Windows, Linux

**ML Lib**: PyTorch, NumPy, SciPy, CoreNLP, OpenIE, scikit-learn, OpenCV, Anaconda, TensorFlow,

**Tools/Technologies** : Spring, Apache Spark, Jupyter Notebook, AWS, Jira, Git, Jenkins, Dgraph, Elasticsearch, Logstash, Kibana, Django

## LEADERSHIP / VOLUNTEERING

**Co-Organizer** at Google Developer Groups – organized meetup platforms for programmers to discuss and collaborate with several developer resources and products

**Bangalore Chapter Organizer** at GirlScript Foundation – handled keynote speakers management and sponsorships for outlining and delivering workshops to a couple of colleges and schools in Bangalore

**Event Head** of 'Women in Tech' for hosting motivational sessions in college by recruiting woman speakers to empower women in the STEM industry to find their ways and advance their careers in tech

## MAJOR ACHIEVEMENT

**Google Maps** Nominated among the twenty Fellow Local Guides from Bangalore to participate in Google's women's meetup and collaborate in designing safety feature prototypes for women

**Karnataka Lead, NASA Space Apps Challenge** for embracing collaborative problem solving with a goal of producing relevant open source solutions to address global needs applicable to both Life in Space and on Earth.

**National Academy of Sciences** - among top 2 selected teams of 40+ teams across Bangalore