

# Ishana Shinde

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## EDUCATION

### Master of Science - Computer Science

GEORGE MASON UNIVERSITY

GPA: 4.0

Fairfax, VA | Expected Graduation 2023

### Bachelor of Engineering - Computer Engineering

SAVITRIBAI PHULE PUNE UNIVERSITY

GPA: 8.7/10 First Class with Distinction

Pune, IN | Graduated Nov 2020

## WORK EXPERIENCE

### GEORGE MASON UNIVERSITY | STUDENT ASSISTANT FOR DATA SCIENCE PROJECT

Fairfax, VA | Present

A machine learning project on predicting local gathering patterns using big data (i.e., data science for local communities)

- Develop machine learning models across all phases of the development cycle including model building, training and testing, and tuning.
- Research existing data processing and machine learning approaches and recommend possible solutions.
- This project is under Dr. Myeong Lee, Dr. Olga Gkountouna, and Dr. Ron Mahabir.

TOOLS: PYTHON, FEATURE GENERATION, MACHINE LEARNING MODELS

### ICERTIS | CLOUD DEV-OPS INTERN

Pune, IN | June 2019 – Sept 2019

- Designed and Developed an **AI chat interface** for an internal automation process reducing **90% of the manual task handling**.
- Developed **Powershell automation scripts** and performed task executions for the R&D Team.
- Created **Test Data**, worked on **Batch Execution of Automated Scripts**, and **Defect Handling**.

TOOLS: PYTHON, C#, NODEJS, WINDOWS POWERSHELL, MICROSOFT AZURE.

## TECH SKILLS

**Languages & Frameworks:** Python, R, Java, C++, C, HTML, CSS, Javascript, Django, Flask

**Software & Cloud:** Docker, Kubernetes, Jenkins, Springboot, Google Cloud, Microsoft Azure, AWS- EC2, IAM, RDS, S3

**Libraries:** Pandas, OpenCV, Scikit-Learn, Numpy, Matplotlib, Scipy, Neural Networks

## PROJECTS

### I'M SOMETHING OF A PAINTER MYSELF

PYTHON, TENSORFLOW - KERAS, GENERATIVE ADVERSARIAL

NEURAL NETWORK(GAN'S).

Developed a GAN architecture that captures special characteristics of one image collection, and figuring out how these characteristics could be translated into another image collection all in the absence of any paired training examples.

### DATA MINING

PYTHON, DECISION TREES, KNN, K-MEANS, XG-BOOST, REGRESSION MODELS

Worked on a variety of Data Mining projects to master the fundamental concepts and ideas. Some of the projects include - Movie Review Classification (Text Classification), IRIS Clustering and Image (MNIST) Clustering, Credit risk scoring for Loan Approval, and Movie Recommendation System.

### INVESTMENT PLANNING AND TAX AUTOMATION USING REINFORCEMENT LEARNING

PYTHON,

DJANGO, STANFORD CORENLP, CUSTOM OCR, TENSORFLOW, AWS (S3, TEXTTRACT, SAGEMAKER).

Implemented and Published the paper "Reinforcing Portfolio Management through Ensemble Learning" as an academic research project to design and develop a single platform that offers customer assistance in tax and investment planning services.

### COMPONENT BASED SOFTWARE DEVELOPMENT

DOCKER, KUBERNETES, RANCHER, AWS S3, EC2,

RDS, SPRINGBOOT, JENKINS

Software Development Projects to gain a full stack developer experience, exploring AWS services like S3, EC2, and IAM to create and host applications on AWS, containerizing and deploying those applications on a K8 cluster with Rancher to provide resiliency and scalability of the application.