

# ISHANA VIKRAM SHINDE

Fairfax, VA

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## Education

### George Mason University

Aug. 2021 – May 2023

Master of Science in Computer Science **GPA : 3.89 /4.0**

Fairfax, VA

**Courses:** Analysis Of Algorithms, Advanced Natural Language Processing, Machine Learning, Data Mining, Mining Massive Datasets, Component-Based Software Development, Software Architecture, and Design

### Savitribai Phule Pune University

June. 2016 – Nov 2020

Bachelor of Engineering in Computer Engineering **GPA : 8.70 /10**

Pune, IN

**Courses:** Artificial Intelligence and Robotics, Data Analytics, Human Computer Interface.

## Technical Skills

**Languages & Frameworks:** Python, SQL, R, Java, C++, C, HTML, CSS, Javascript, Django, Flask, Selenium, Github, Hadoop - MapReduce

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

**Libraries:** Pandas, OpenCV, Scikit-Learn, Numpy, Matplotlib, Scipy, Pytorch, Tensorflow, Pyspark, Keras

## Experience

### George Mason University

August 2022 – Present

Graduate Teaching Assistant

Fairfax, VA

- Graduate Teaching Assistant for CS 110 Essentials of Computer Science. Responsibilities: Grade homework, assignments, and quizzes for 30+ students and hold office hours.

### Prifina

June 2022 – December 2022

Data Engineering Intern

San Francisco, CA

- Worked with the data and product planning team to develop data models for various apps and generate dynamic data for the respective data models.  
**Tools:** Node.js, Rest API's, Git

### George Mason University

October 2021 – November 2022

Student Assistant

Fairfax, VA

- Handling **geospatial** data to generate 30+ similarity-based features using the **universal sentence encoder** model for focal events. Generating features from existing data using **TF-IDF vectorization**.
- 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.  
**Tools:** Python, Pandas, Numpy, Tensorflow, Scikit-learn, Scipy, Universal Sentence Encoder.

### Icertis

June 2019 – September 2019

Cloud-Ops Intern

Pune, India

- 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.
- 95% Reduction in the impact on the production system by testing positive and negative scenarios.  
**Tools:** Python, C#, NodeJS, Windows Powershell, Microsoft Azure.

## Projects

**Demand Forecasting** | *Pyspark, Facebook-Prophet, Regression Models.*

November 2022

- Using time series models like Facebook-Prophet, and regression models like Decision Tree, Random Forest and Linear Regression to predict the unit sales for thousands of items sold at different Favorita stores located in Ecuador.

**Prediction of Cognate Reflexes** | *Python, Tensorflow, GCNN, CNN, Google Colab, Keras*

August 2022

- The goal of this research project is to predict cognate reflexes using a SOTA Graph-based neural network model that overcomes the constraints of the baseline model.

**I'm Something of a Painter Myself** | *Python, TensorFlow, Keras, GAN's.*

September 2021

- Developed a GAN architecture that captures special characteristics of one image collection and figured out how these characteristics could be translated into another without any paired training examples.

**INVARJAN** | *Python, Django, Stanford CoreNLP, Custom OCR, TensorFlow, AWS (S3, Textract, Sagemaker).* June 2019

- Implemented and published the paper "Reinforcing Portfolio Management through Ensemble Learning" to develop a single platform that offers customer assistance in tax and investment planning services.