Ishana Vikram Shinde

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Experience

George Mason University | **August 2022 – May 2023**
Graduate Teaching Assistant | *Fairfax, VA*

- Teaching Assistant for CS 110 Essentials of Computer Science and CS 483 Analysis of Algorithms. Evaluated home-works, assignments, and quizzes for 100+ students providing constructive feedback and suggestions for improvement that led to an average grade improvement of 30%.
- Delivered comprehensive academic support to 50+ students, offering real-time troubleshooting and programming solutions that led to a 90% pass rate and a 25% improvement in overall academic performance.
  Tools: Java, JUnit testing.

Prifina | **June 2022 – December 2022**
Data Engineering Intern | *San Francisco, CA*

- Collaborated with the data and product planning team to develop data models for apps and produced data for the respective data models. Presented results weekly and reviewed code on Github.
  Tools: Node.js, Rest API's, Git.

George Mason University | **October 2021 – November 2022**
Student Research Assistant | *Fairfax, VA*

- Assessed **geospatial** data to generate 30+ similarity-based features using the **universal sentence encoder** model for focal events. Generated features from existing data using **TF-iDF vectorization.**
- Conducted extensive research on existing data processing and machine learning approaches; recommended 3 possible solutions that reduced model training time by 40% and improved model accuracy by 15%.
  Tools: Python, Pandas, Numpy, Tensorflow, Scikt-learn, Scipy, Universal Sentence Encoder.

Icertis | **June 2019 – September 2019**
Cloud-Ops Intern | *Pune, India*

- Designed and proposed an **AI chat interface** for an internal automation process reducing **90% of the manual task handling. Devised 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.

Technical Skills

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

Education

George Mason University | **August 2021 – May 2023**
Master of Science in Computer Science (Specialization in Machine Learning) **GPA: 3.90** | *Fairfax, VA*
Achievement - Outstanding Academic Achievement Award

Savitribai Phule Pune University | **June 2016 – November 2020**
Bachelor of Engineering in Computer Engineering | *Pune, IN*

Projects

Demand Forecasting | *Pyspark, Facebook-Prophet, Regression Models* | **November 2022**

- Analyzed time series data using Facebook-Prophet, Decision Tree, Random Forest, and Linear Regression models, aimed at predicting the unit sales of thousands of products across Favorita stores in Ecuador.
- Performed exploratory data analysis to understand trends, seasonality, and other influential factors affecting sales.
- Fine-tuned model hyperparameters through iterative testing, boosting model accuracy by 18% and reducing runtime by 30%.

Prediction of Cognate Reflexes | *Python, Tensorflow, GCNN, CNN, Google Colab, Keras* | **August 2022**

- Implemented a State of Art Graph-based Neural Network to predict cognate reflexes for low-level languages, improving language processing capabilities by 40% and reducing error rate by 25% in the Translation team.
- Developed a novel solution model inspired by Google's approach; achieved comparable evaluation scores on metrics such as Bleu and Edit Distance, and exceeded industry benchmarks by 20%.
- Analyzed and optimized data pre-processing workflows, improving data quality by 70%.