SHIVANI NAIK

Seattle, WA • (564) 210-7537 • naik.shiv@northeastern.edu • linkedin.com/in/shivaninaik08

EDUCATION

Master of Science, Data Analytics Engineering

Northeastern University, Seattle, WA Expected May 2023 GPA 4.0/4.0

Graduate Teaching Assistant, Foundation of Data Analytics

Master of Technology

International Institute of Information Technology, Bangalore, India

Aug 2016 - Jul 2018

GPA 3.91/4.0 Dean's List for all years

Bachelor of Engineering

Savitribai Phule Pune University (PICT Pune), Pune, India

Aug 2011 - Jun 2015

GPA 9.05/10 First Class with Distinction

EXPERIENCE

Data Scientist Aug 2018 - May 2021

Walmart Labs, Bangalore, India

- Fresh Produce Quality Control with Machine Vision: Detected and classified defects and their severities in fresh produce images using Convolutional Neural Network (CNN), Object Detection, Transfer Learning and Fine-tuning
- Introduced semi-automation that resulted in \$8M \$10M annual savings and reduced ~50% QC processing time
- Utilized latest models (EfficientNet) and training strategies to increase classification accuracy by ~16%
- Demonstrated customer-centricity by collaborating with business and presenting modeling efforts biweekly
- Customer Review Analysis with Topic Modeling: Performed Latent Dirichlet Allocation (LDA) analysis of ~90K customer reviews for online grocery shopping to identify top 30-40 problems which was used to retain customers

Data Science Intern

Jan 2018 - Jun 2018

Walmart Labs, Bangalore, India

- Shrinkage Prevention during Self-Checkout: Verified contents being scanned from self-checkout camera video feed to prevent shrinkage using object detection (Faster-RCNN) which resulted in 30% shrinkage reduction
- Automated Fashion with Generative Adversarial Network (GAN): Created new fashion designs from existing apparel images dataset (~20K) using a Generative Adversarial Network for internal hackathon

PATENT

"System and method for produce detection and classification" Patent filed with USPTO (US20200034962A1)

SKILLS

1	Lanauaaes and	Database	Python.	R. Java.	SOL Server.	MvSQL
---------------------	---------------	----------	---------	----------	-------------	-------

• Libraries and Tools Pandas, Numpy, Matplotlib, scikit-learn, Keras, OpenCV, Tensorflow, Pytorch, Seaborn,

tidyverse, ggplot2, Tableau, Git, Jupyter Notebook

Technical Skills and Algorithms
 Machine Learning, Deep Learning, Computer Vision, Data Visualization, Data Analytics, ER Modeling, Convolutional Neural Network, GAN, DBMS, Regression, Clustering,

Natural Language Processing, Data Mining, Statistics, Hypothesis testing, A/B testing,

Time Series Analysis, Random Forests

ADDITIONAL PROJECTS

- Hand Gesture Recognition System (Amazon Campus Mentorship Series): Built a system to recognise American Sign Language from video and generate a transcript using OpenCV, SIFT and machine learning classifiers
- Recipe Database Management System: Designed MS SQL database of recipes, ingredients, store inventory and user orders with ER modeling with 17+ entities and visualization reports with Tableau
- Smart Fire Evacuation System (Internet of Things): System detected fire (sensors, Raspberry Pi) with sensor fusion and used WiFi positioning system to determine user location and recommend nearest safe exit using Android app
- Music Recommendation System: Recommended new songs based on similar users and song profiles of 110K users
 using clustering and collaborative filtering

ADDITIONAL INFORMATION

- Bengaluru Regional Winner in Stanford University's Women in Data Science Datathon 2020
- Completed leadership training in Graduate Leadership Institute, Fall 2021 program at Northeastern University