

Shivam Srivastava

12814 University Club Dr, Tampa, Florida 33612
shivam4@usf.edu | +1 (813)-337-9597

EDUCATION

MASTER OF SCIENCE

COMPUTER SCIENCE

UNIVERSITY OF SOUTH FLORIDA

Aug. 2019 - May 2021

CURRENT GPA: 3.92 / 4.0

BACHELOR OF TECHNOLOGY

COMPUTER SCIENCE & ENGINEERING

JSS ATE, NOIDA

Aug. 2012 - Jun. 2016

AGGREGATE PERCENTAGE: 74%

LINKS

LinkedIn:// shivam1904

Github:// shivam1904

SKILLS

LANGUAGES

Python, MATLAB

DEEP LEARNING

TensorFlow, Keras, PyTorch

DATA PROCESSING

OpenCV, Dlib, Numpy, Pandas

BIG DATA

Hadoop, Spark, Apache Kafka, Airflow

AWS SERVICES

Lambda, S3, Firehose, SQS, SNS,
Athena, EMR, Glue, Redshift

DATABASES

MySQL, PostgreSQL, MongoDB

SERVER

Linux, Git, Ansible

COURSEWORK

GRADUATE

Digital Image Processing

Computer Vision

Pattern Recognition

Introduction to AI

Introduction to Robotics

UNDERGRADUATE

Distributed Systems

Design and Analysis of Algorithms

Theory of Computation

Software Engineering

RESEARCH

STUDENT RESEARCHER | JAN 2020 – PRESENT

USF Computer Vision and Pattern Recognition Lab

- Automatic emotion detection using body movements.
- Detecting facial action units using facial landmarks.
- Resolving class imbalance in image classification.

PUBLICATION

Recognizing Emotion in the Wild using Multimodal Data

S. Srivastava, S. Aathreya, S. Hinduja, Sk R. Jannat, H. Elhamedadi, and S. Canavan

International Conference on Multimodal Interaction, 2020

EXPERIENCE

GRADUATE TEACHING ASSISTANT | AUG. 2020 – PRESENT

University of South Florida | Tampa, FL

- TA for *Introduction to Theory of Algorithms* (COT 6405) instructed by Dr. Shaun Canavan.

SOFTWARE ENGINEER | JUNE 2017 – JUNE 2019

Delhivery | Gurgaon, India

- Responsible for building a scalable enterprise level data warehouse and managing a multi-node 5 TB Redshift cluster, handling 2000+ analytical queries serving different dashboards daily.
- Created an ETL pipeline that validates, clean and store the real time data in a columnar format. Also, converted historical data to Parquet which reduced the storage cost by 80% on S3 and approximately 70% data scans on queries.

BACKEND ENGINEER | JUNE 2016 – MAY 2017

Neuron | Gurgaon, India

- Created and managed the back-end of Neuron's developer platform using **Django Framework** which offered multiple natural language processing based services to users according to the subscription opted.
- Created an interactive **Chatbot** and it's admin panel using Django and MongoDB as the NoSQL database to build and store surveys that can be shared easily on multiple social media platforms and sites, replacing the usual form type questionnaire format for clients.

PROJECTS

- **Face Detection and Recognition:** Detect and recognize tagged faces in an image. Trained a classifier using facial features.
- **Object Detection:** CNN based Pedestrian Detection using YOLOv3.
- **Smile detection system:** Detect smile and eye contact of user on the live webcam stream. Trained a SVM on the image frames coming from webcam.
- **Food Genie:** Sentiment analysis on user and critic reviews of restaurants found by scraping websites and Zomato API, to give ratings of food items per restaurant.
- **JSS Infoconnect:** Student-Faculty interaction platform; 20,000+ users; 20,000+ notices uploaded; 5000+ daily active users.