

Shanuj Shekhar

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Education

SUNY Stony Brook

Aug 2019 – Dec 2020 (*Expected*)

- Masters in Computer and Information Science | State University of New York at Stony Brook | **GPA: 3.61/4.00**

NIT Jalandhar

Aug 2015 – May 2019

- Bachelors of Technology in Computer Science and Engineering | Dr. B.R.Ambedkar National Institute of Technology | **GPA: 8.53/10.00**

Languages and Technologies

- **Java & Python** (Primary), **JavaScript, HTML, CSS, D3.js** (Proficient), **C/C++, C#** (Familiar with)
- **Machine Learning & Data Analysis:** PyTorch, Tensorflow, Numpy/Scipy, Pandas, Scikit-learn, Matplotlib, OpenCV, nltk
- **Other Tools:** Google Colab, Jupyter, LaTeX, RESTful APIs (Flask, Django), Heroku, Docker, Eclipse, Git, Unity Tool, Blender

Work Experience

SUNY Stony Brook - Graduate Teaching Assistant

August 2020 – Present

TA for CSE 214 Data Structures || Java

- Hold office hours, helping a class of 80+ students apply data structure concepts with Java programming || Grade assignments

Mozilla Builders Fix-The-Internet Open Lab - Intern

April 2020 – June 2020

Internship || Python, HTML/CSS/Javascript, Flask, Heroku, NLP

- Developed an online platform for matching donation related resources like food, clothing etc.using relevant tweets. [Website Link](#)
- Implemented Naive Bayes Classifier for classification of tweets with an accuracy of 80% ([Project Link](#))

Cadence Design Systems - Summer Intern

June 2018

Text Detection in Images || C++, Microsoft Visual Studio 2017

- Extracted text from Microprocessor Pin Diagram images. Using Posterior Probability concept text accuracy was improved

NSUT, Delhi - Research Intern

June 2017

Reusable Hybrid Test Automation Framework for Web Based Scrum Project || Java, Selenium Tool 2.0

- Achieved Automation Testing on Amazon, Flipkart e-commerce websites || **Published in Journal of Applied Science and Engineering**, Taiwan, 2018 ([Publication Link](#))

Technical Experience (Projects)

- **Smart IoT Climate Control System** (Jan 2020 – Ongoing). Currently developing a smart IoT climate control system by leveraging ML techniques for damper actuation (when to turn on heating/cooling) || Deep Neural Networks, PyTorch ([Project Link](#))
- **D3 Visualization of COVID-19 Pandemic** (Mar 2020). Created a dashboard for visualizing COVID-19 cases in the USA, how the disease spread and how it affected the country's unemployment rates || Python, D3.js, Flask ([Project Link](#))
- **Detect Heavy Drinking Episodes** (Feb 2020). Implemented Random Forest Classifier to identify intoxicated individuals according to their TAC labels and detect drinking episodes using accelerometer samples from their mobile devices || Python ([Project Link](#))
- **Augmented Reality Video Game** (Jan 2020). Designed a game in which a user can interactively build an augmented 3D scene on a planar surface in the real world || C#, Unity Tool, Vuforia ([Project Link](#))
- **Emotion Recognition** (Jun 2019). Performed facial expression analysis in near real-time live webcam feed & classified 8 different emotions using Support Vector Machine with accuracy of 67% || Python, OpenCV ([Project Link](#))
- **TFIDF** (Feb 2017). Calculated the term frequency for terms present in 2000 documents || Java ([Project Link](#))

Relevant Coursework

- Data Structures & Analysis of Algorithms, Advanced Programming in Java, Machine Learning, Visualization, Data Mining, Natural Language Processing, Operating Systems, Virtual Reality, Artificial Intelligence

Additional Experience and Awards

- Completed **JP Morgan & Chase Software Engineering Virtual Experience** (Summer 2020) ([Project Link](#))
- Acquired **Top 10 Rank** in Undergrad in class of Computer Science