Trisha Kanji

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Education

SUNY Stony Brook	**Aug 2019 – Dec 2020 (Expected)**

- Master of Science in Computer and Information Sciences | State University of New York at Stony Brook | **GPA: 3.67/4.00**

IIEST, Shibpur	**Aug 2013 – Jun 2017**

- B.E. in Computer Science & Tech.| Indian Institute of Engineering Science & Technology | **GPA: 8.12/10** (First Class with Hons.)

Programming Languages and Technologies

- **Java, Python** (Primary), **D3.js, HTML/CSS/Javascript, PL/SQL** (Proficient), **C/C++, XPath/XQuery** (Familiar)
- **Machine Learning & Data Analysis**: TensorFlow, Pandas, Sklearn, Seaborn, NumPy/SciPy, NLTK, OpenCV, MATLAB
- **Database Tools**: SQL(MySQL, DB2), Toad SQL, DB2 Spatial Extender, QGIS, JDBC, Oracle 10g Forms and Reports Builder
- **Others**: RESTful Web Services, Flask, Django, Bootstrap, Heroku, Docker, Git, Jupyter, Google Colab, LaTeX, Hadoop

Work Experience

SUNY Stony Brook	**Graduate Teaching Assistant**	**August 2020 - Present**

TA for CSE 214 Data Structures | Java
- Enhance students' understanding of the course material through recitation & office hours sessions for a class of 80+
- Grade and assist in structuring course exams & programming assignments on key data structures and algorithms concepts

Accenture Solutions	**Associate Software Engineer**	**Jul 2017 - Apr 2019**

Application Development Associate (Oracle Apps)
- Technology stack: PL/SQL, Oracle 10g Database, Oracle E-Business Suite (EBS)
- Attained client-specific customization through PL/SQL Packages & fixed bugs in existing code to resolve issues under Oracle EBS.
- Created & updated technical ERP Module Design & Build (MD) documents for all functionality implementations.

Mozilla's Fix-The-Internet Open Lab	**Remote Intern, Mozilla Builders**	**Apr 2020 - Jun 2020**

Website: https://help-for-all.herokuapp.com/
- Technology stack: Web Application Development| ML | NLP | Python, Flask, HTML/CSS/Javascript, Bootstrap, Heroku
- Developed online platform for relief coordination by matching donation related resources like clothing etc. using relevant tweets.
- Achieved 80% accuracy using Naive Bayes Classifier for classification of tweets. Project Link

IIT, Kharagpur	**Research Intern**	**May 2016 - July 2016**

Academic Internship under Dr. S. K. Ghosh, Dept. of Computer Science and Engineering | Python, QGIS Python API
- Devised algorithm to find optimum bus route in a disrupted road network, using road map of Kolkata city(India). Project Link

Technical Experience (Projects)

- **Causal Link Detection** (Ongoing). Developing an online interactive interface to help users refine causal models by adding data found on the web, to overcome the problem of incomplete data with limited scope | Data Visualization, Python3, D3.js | Project Link

- **Detect Heavy Drinking Episodes** (Feb 2020). Performed binary classification on time series accelerometer data to predict whether person is intoxicated, using TAC levels & achieved test accuracy of 77.5% using random forest classifier | ML, Python3 | Project Link

- **Qualitative & Quantitative Analysis of Dimension Reduction Methods** (Oct 2019). Consolidated criteria to find the best algorithm by analysing 3 algorithms (PCA, t-SNE & UMAP), using different metrics | Data Science, Python3 | Project Link

- **Decode User Input Gesture on a Virtual Keyboard** (Sept 2019). Given a 10000 words dictionary, effected the SHARK2(Short-Hand Aided Rapid Keyboarding) algorithm to output the 3-best decoded words ranked according to confidence with the optimal performance being 45 wpm for decoding words| Human Computer Interaction, Python3 | Project Link

- **Implementation of Document Flow Management System** (Aug 2016 - May 2017). Designed an open source web-based system for privilege-based management of digital documents | S/W Design Principles, HTML/CSS/Javascript, SQL | Project Link

- **Bag of Visual Words** (Jul 2015).Facilitated logo matching using SIFT and Shape Context Algorithms | Image Processing | Project Link

Coursework

- Algorithms, Data Science, Data Visualization, ML, NLP, HCI, Database Systems, AI, Data Mining, OS, Computer Networks

Additional Experience and Activities

- Completed **JPMorgan Chase Software Engineering Virtual Internship** (Jun 2020) Project Link
- **Winner of vision guided autonomous robotics event,** on character recognition at Kshitij, IIT,Kharagpur (Feb 2016) Project Link
- **Technical Head of Computer Vision** (Jul 2015- Jul 2016) at Robodarshan, the robotics society of IIEST, Shibpur.