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. Eng. in Computer Science & Tech. | Indian Institute of Engineering Science & Technology | **GPA: 8.12/10** (First Class with Honours)

Languages and Technologies

- Code mainly in **Python & Java**, Prior experience in **D3.js, HTML/CSS/Javascript & PL/SQL**, Familiar with **XPath/XQuery, C/C++**
- **Machine Learning & Data Analysis**: TensorFlow, Pandas, Sklearn, Seaborn, NumPy/SciPy, NLTK, NetworkX, OpenCV, MATLAB
- **Database Tools**: SQL(MySQL, DB2, Oracle), Toad SQL, DB2 Spatial Extender, QGIS, JDBC, Oracle 10g Forms and Reports Builder
- **Others**: RESTful API using Frameworks (Flask, Django), Bootstrap, Heroku, Docker, Git, Jupyter, Google Colab, LaTeX, HDP Sandbox

Work Experience

Accenture Solutions   **Associate Software Engineer**   **July 2017 - Apr 2019**
Application Development Associate (Oracle Apps) | PL/SQL, Oracle 10g Database, Oracle E-Business Suite (EBS)
- Implemented client-specific customization in PL/SQL Packages & fixed bugs in existing code to resolve issues under Oracle EBS || Hands on experience with Oracle10g Forms & Reports Builder || Created & updated technical ERP Module Design & Build (MD) documents.

Mozilla's Fix-The-Internet Open Lab   **Developer, Mozilla Builders Spring Program**   **Apr 2020 - Jun 2020**
Internship | Python, Web Development using Flask & Heroku
- Developed an online platform for relief coordination by matching donation related resources like food, clothing etc. using relevant tweets. The website lists donation/request tweets location wise, based on search. Website: https://help-for-all.herokuapp.com/
- Implemented Naive Bayes Classifier for classification of tweets (Donation/Non-Donation, Donor/Requestor & Resource Type classification) and achieved an accuracy of approx. 80%, after parsing them using standard NLP techniques. 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
- Developed algorithm to find optimum bus route in a disrupted road network, using roads & bus routes of Kolkata city(India). Project Link

Technical Experience (Projects)

- **Causal Link Detective Game** (Ongoing). Currenty 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 from mobile devices to predict if it corresponds to an intoxicated person, using TAC levels and achieved a test accuracy of 77.5% using a random forest classifier | Machine Learning, Python3 | Project Link

- **Generating entity descriptors (Post-Modifiers) based on context** (Nov 2019). Implemented Post-Modifier (PoMo) generation using BiLSTM model with attention, which generates a post-modifier phrase describing the target entity (a noun), that contextually fits in the input sentence | Natural Language Processing, Python3 | Project Link

- **Qualitative and Quantitative Analysis of Dimensionality Reduction Methods** (Oct 2019). Compared dimension reduction algorithms(PCA, t-SNE & UMAP) using metrics like varying data size, time complexity, normalized mutual score | Data Science, Python3 | Project Link

- **Decode User Input Gesture on a Virtual Keyboard** (Sept 2019). Given a 10000 words dictionary, implemented the SHARK2(ShortHand Aided Rapid Keyboarding) algorithm to output the best decoded word from gesture | Human Computer Interaction, Python3 | Project Link

- **Design and implementation of a Document Flow Management System** (Aug. 2016 - May 2017). Designed an open source web-based system aiming at privilege-based management of digital documents | S/W Engg. Fundamentals, HTML/CSS/Javascript, SQL | Project Link

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

Coursework

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

Additional Experience and Activities

- Completed **JPMorgan Chase Software Engineering Virtual Internship** (Summer 2020) Project Link
- **1st in vision guided autonomous robotics event** based on character recognition using image processing and equation optimization at the annual tech- fest of IIT,Kharagpur (S.H.E.L.D.O.N. Kshitij 2016). Project Link
- **Computer Vision Sub-Head** (2015-16) of Robodarshan, the robotics society of IIEST, Shibpur.