

EDUCATION

- **Stony Brook University** Stony Brook, NY
Master of Science in Computer Science, Graduating Dec 2020, GPA: 3.8/4.0 *Aug 2019 – **Present***
 - Teaching Assistant for undergraduate course - *Programming Abstractions* (Fall '19).
 - Courses: Data Science, Computer Vision, NLP, Algorithms, Big Data, Probability & Stats.
- **University of Mumbai** Mumbai, India
Bachelor of Engineering in Information Technology; GPA: 3.9/4.0 *Aug 2011 – May 2015*
 - Data Structures & Algorithms, Discrete Maths, Software Engineering, Object Oriented Analysis & Design

PROFESSIONAL EXPERIENCE

- **JP Morgan Chase & Co.** Mumbai, India
Associate (Software Engineer) *May 2017 – Jul 2019*
 - Re-architected server-side services to support web-based UI & streaming real-time data using WebSockets. Improved performance reducing payload sizes (~70% smaller) & boosted reliability using micro-services.
 - Developed data collection mechanisms to track and compare client portfolio before and after trades, for reporting over REST APIs to compliance teams that helped generate reports instantly instead of EoD.
 - Implemented automated performance testing using in-house CI/CD and build tools to reduce developer intervention and save at least 4 man-hours/release cycle.
- **LiveFiesta** Mumbai, India
Lead Android Developer *Jun 2016 – Jan 2017*
 - Designed and developed Android application with an average rating of 4.5+ for customers to book tickets to events using MVP architecture & TDD for clean, testable and maintainable code.
 - Developed utility application to redeem tickets for convenient one-time entry to customers reducing entry time by 50% which cut losses due to ticket duplication & untracked re-entrants.

PUBLICATION

- **Visualization of Mechanics Problems based on Natural Language Processing** *Apr 2015*
International Journal of Computer Applications

PROJECTS & ACHIEVEMENTS

- **Elo Rating Prediction:** Used regression techniques over novel features extracted from 100k Chess games. Feature extraction run on multiple compute nodes in parallel using Open MPI for 15 times faster processing.
- **Comment Toxicity Detection:** Detected 6 levels of toxicity in Wikipedia comments using Bi-GRU & BERT with an AUC of 0.98+. Compared use of different word embeddings and pre-processing techniques.
- **Video Action Classification:** Compared LSTM v/s SVM on the action classification task on the UCF101 dataset. Computed features for 60000 frames with limited compute resources & achieved an accuracy of 85%.
- Relation Extraction on reduced subset of SemEval-2010 Task 8 dataset using GRU and CNN.
- Sentiment analysis on IMDb movie reviews using DAN and GRU evaluated using Perturbation Analysis.
- Using Deep Learning and Transfer Learning on CNN-based models for scene recognition with 89% accuracy.
- 3D Pose Estimation from action and 2D co-ordinates using Neural Networks on the Human36M dataset.
- **HoldingWilley** 🍏: An iOS app for displaying real-time scores, stats & analysis of cricket matches.
- **WaveView** 🎧: An open-source Android/Java library for drawing and animating sinusoidal waves.

TECHNICAL SKILLS

- **Languages:** Proficient in Python & Java, experience with Swift, C, C++, HTML, CSS, JS, SQL
- **Database Technologies:** MongoDB, SQLite, MySQL
- **Frameworks:** TensorFlow, PyTorch, OpenCV, Pandas, Numpy, Scikit-Learn, Spring, Android, iOS.
- **Build & Other Tools:** Git, Gradle, Maven, Jenkins, Bash, Linux.