Narayan Acharya

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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
  Application Developer/Associate — *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 testable code.
  ○ Developed utility application to redeem tickets for convenient one-time entry to customers reducing entry time by 50% and cut losses due to ticket duplication & untracked re-entrants.

- **TechGenium** — Mumbai, India
  Software Developer & Partner — *Jun 2015 – May 2016*

PUBLICATION

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

PROJECTS & ACHIEVEMENTS

- Video action classification on UCF101 dataset using LSTM and SVM with an accuracy of 85%.
- 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.
- Detection of toxicity in Wikipedia comments using Bi-GRU & BERT with an AUC score of 0.98+. Compared different architectures, use of different word embeddings and pre-processing techniques for this task.
- Sentiment analysis on IMDb movie reviews using DAN and GRU evalutaed using Perturbation Analysis.
- **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.
- Ranked top 1% in India in Graduate Aptitude Test in Engineering (2015) exam organized by IIT & IISc.

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.

This resume was updated last on February 1, 2020. Latest version can be found at *bit.ly/358iDar*