

EDUCATION

Courant Institute of Mathematical Sciences, New York University, New York, NY *May 2014*
GPA: 3.36
Master of Science in Applied Mathematics (Scientific Computing - Data Science)
Relevant Coursework : Open Source Tools, Data Mining for Business Analytics, Statistics, Probability,
Speech Recognition, Artificial Intelligence, Scientific Computing

Xavier Institute of Engineering, University of Mumbai, Mumbai, India *June 2010*
GPA: 3.70
Bachelor of Engineering in Electronics and Telecommunication

SKILLS

Programming Languages : Python, Unix Shell Scripting, SQL, MATLAB, R, HTML
Software Tools and others : Weka, Google App Engine, Finite State Machine (FSM) Library, Grammar (GRM) Library, MS Office Suite

PROJECTS

Leonard N. Stern School of Business, New York University, New York, NY *Spring 2014*
Photo Prediction Analysis

- Implemented Data Mining techniques using Weka (Machine Learning software) to build prediction models to accurately predict if a photo would be considered 'good' by a human evaluator. Based on a Kaggle competition.

Courant Institute of Mathematical Sciences, New York University, New York, NY *Fall 2013*
Decision Tree Modeling

- Designed and built a decision tree model using Python to recommend restaurants according to user preference.

Human Activity Predictor using Smartphone Accelerometer Data *Fall 2013*

- Developed/Trained classifier using SVM and Multilayer Perceptron techniques to improve performance of the human activity predicting model compared to the results obtained from previous models.

Blog Generator *Fall 2013*

- Developed a web-based application implementing functionality of a blogging service using Python and Google App Engine.

Database System Model *Spring 2013*

- Designed and implemented an entity-relationship model for a movie theater database using SQL.

Non-word Spelling Error Correction *Fall 2012*

- Implemented an efficient method for correction of non-word error using FSM and GRM libraries.

Xavier Institute of Engineering, University of Mumbai, Mumbai, India *Spring 2010*
Speech Recognition

- Learned and implemented different models and methods for Speech Recognition using MATLAB.

Rain Detector Using IC 555 *Fall 2006*

- Built a water detection sensor circuit using IC 555 as an astable multivibrator.

EXPERIENCE

Research Intern, **Plastic Past LLC**, New York, NY *August 2014 - Present*

- Research and recommend data mining applications and emerging biometric technology solutions that this digital agency could offer their clients.
- Report directly to the Chief Technology Officer to develop actionable client-facing recommendations that would lead directly to new business opportunities.

Teaching Assistant, **Courant Institute of Mathematical Sciences, New York University**, New York, NY *Spring 2014*

- Graded weekly assignments for Intro to Computer Programming (Python) course.
- Co-wrote a Google App Engine script to automate Professor's grading responsibilities.
- Actively assisted students with queries; managed and replied to emails pertaining to coursework and grades.

Professor, **B.K.M High School**, Mumbai, India *June 2011 - April 2012*

- Taught courses in Mathematics and Intelligence Quotient (I.Q.) test for the Maharashtra State Council of Examination's High School Scholarship Examination.
- Voluntarily tutored Mathematics for students who needed extra help.

PROFESSIONAL AFFILIATIONS

American Mathematical Society (**AMS**)
Courant's Women In Computing (**WinC**)
Institute of Electrical and Electronics Engineers (**IEEE**)

VOLUNTEER EXPERIENCE

NYU Service, New York, NY
New York Cares, New York, NY
Children Toy Foundation, Mumbai, India

LEADERSHIP EXPERIENCE

- Head - Technical Paper Presentation conducted under the IEEE Chapter of the college, Xavier Institute of Engineering, 2010
- Assistant Head - University Technical Festival, Xavier Institute of Engineering, 2009