

EDUCATION

Courant Institute of Mathematical Sciences, New York University, New York, NY

Master of Science in Applied Mathematics (Scientific Computing - Data Science)

May 2014

GPA: 3.36

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

Bachelor of Engineering in Electronics and Telecommunication

June 2010

GPA: 3.70

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

Photo Prediction Analysis

Spring 2014

- 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

Decision Tree Modeling

Fall 2013

- 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

Speech Recognition

Spring 2010

- 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