Aashita **Kesarwani**

(+1) 313-455-8850 | contact@aashitak.com | www.aashitak.com
AashitaK | aashita-kesarwani

Education

PhD in Mathematics — *Aug 2012 - Present*

Tulane University — *New Orleans*

- Working in Number Theory. Submitted two papers. Expected to graduate by December 2017.
- Teaching assistant for the undergraduate courses – Statistics for Scientists, Introduction to Probability and Statistics, Statistics for Business, Calculus - I, II and III.

Integrated MS in Applied Mathematics — *Aug 2007 - May 2012*

IIT(Indian Institute of Technology) — *Roorkee, India*

- GPA – 8.6 Second highest GPA among math majors.
- Instructor for six workshops on "Introduction to MATLAB" (Each workshop had three two-hour sessions with participation of more than 60 fellow students).
- Courses taken:
  - Artificial Neural Networks
  - Probability and Statistics
  - Statistical Inference
  - Multivariate Techniques
  - Nonlinear Programming
  - Database Management Systems
  - Data Structures
  - Linear Algebra
  - Graph Theory
  - Discrete Mathematics
  - Computer Systems and Programming
  - Financial Mathematics
  - Operations Research
  - Optimization Theory
  - Mathematical Modeling

Coursera MOOCs — *Aug 2016 - Present*

- Machine Learning by Stanford University
- Introduction to Data Science in Python by University of Michigan
- Applied Plotting, Charting and Data Representation in Python by University of Michigan
- Applied Machine Learning in Python by University of Michigan
- Using Databases with Python by University of Michigan
- Using Python to Access Web Data by University of Michigan
- Python Data Structures by University of Michigan
- Programming for Everybody by University of Michigan
- Capstone: Retrieving, Processing, and Visualizing Data with Python by University of Michigan

Programming

Languages	**Python** (NumPy, SciPy, ***pandas***, **Matplotlib**, scikit-learn, **sqlite3**, urllib, BeautifulSoup, re, json, xml.etree.ElementTree, venv, socket, pickle), **MATLAB**/Octave, C++, R, **MySQL**, JavaScript
Version control	Git and GitHub
Tools	**Jupyter Notebook**, Spyder, Dev-C++, DB Browser for SQLite
Miscellaneous	Mathematica, SageMath, MS-Excel, LaTeX, HTML/CSS

Project

An SVM-cum-Decision Tree Approach to binary classification. — *Nov 2011*

Supervisor & Prof. Gopinath Pillai — *IIT Roorkee*

- Two-week project involved implementation of a hybrid support vector machine based decision tree for binary classification in MATLAB. The tree first classified the points as far off or close to the decision boundary, and then SVM was used only for the latter points to speed up the process. Worked with Kalpna Gupta.