

Aashita Kesarwani

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Education

PHD IN MATHEMATICS

Aug 2012 - Present

Tulane University

New Orleans

- Working in Number Theory. Expecting to graduate in December 2017.
- Teaching assistant for the undergraduate courses – Introduction to Probability and Statistics, Statistics for Scientists, 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 out of 10 (Second highest GPA among math majors). Relevant coursework:
 - Artificial Neural Networks
 - Probability and Statistics
 - Statistical Inference
 - Multivariate Techniques
 - Database Management Systems
 - Data Structures
 - Linear Algebra
 - Computer Systems and Programming
 - Operations Research
 - Mathematical Modeling

COURSERA MOOCs

Aug 2016 - Present

- Machine Learning by Stanford University
- Deep Learning Specialization by deeplearning.ai
 1. Neural Networks and Deep Learning
 2. Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
 3. Structuring Machine Learning Projects
- Applied Data Science with Python Specialization by University of Michigan
 1. Introduction to Data Science in Python
 2. Applied Plotting, Charting and Data Representation in Python
 3. Applied Machine Learning in Python
- Python for Everybody Specialization by University of Michigan
 1. Programming for Everybody
 2. Python Data Structures
 3. Using Python to Access Web Data
 4. Using Databases with Python
 5. Capstone: Retrieving, Processing, and Visualizing Data with Python

Programming

Languages **PYTHON** (NumPy, SciPy, **pandas**, **Matplotlib**, **scikit-learn**, sqlite3, urllib, BeautifulSoup), **MATLAB**/Octave, C++, R, MySQL

Miscellaneous **Mathematica**, MS-Excel, **LaTeX**, **Jupyter Notebook**, Git

Projects

AN SVM-CUM-DECISION TREE APPROACH TO BINARY CLASSIFICATION.

Nov 2011

- A hybrid support vector machine based decision tree for binary classification was implemented 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.

THE EFFECT OF RECESSION ON THE HOUSING PRICES

Jan 2017

- The hypothesis that the university towns have their mean housing prices less effected by recessions was tested. The data was obtained from the Zillow research, Bureau of Economic Analysis and wikipedia in different formats, manipulated using pandas and then tested using scipy.stats.

PLOTTING RECORD TEMPERATURES FOR NEW ORLEANS

Feb 2017

- The record highs and lows in the temperature over the period 2005-2014 was plotted as line graphs and the record breaking temperatures for 2015 was scattered over as red and blue dots using matplotlib. The data was extracted from GHCN-DAILY and manipulated using pandas.