Gaurav P. Rele

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350 Arballo Dr. Apt 7B, San Francisco, CA 94132

Skills

Programming:
C++,Python, MATLAB, PostgreSQL, R, Tableau, C ,C#.NET, Hadoop, Java, HTML5, JavaScript, LaTeX.
Others:
MS Excel, Word, PowerPoint, Outlook
OS:
Windows, Linux

Links

GitHub: gauravrele87
Linkedin: gauravrele
Website: gauravrele

Additional Courses

Machine Learning (Coursera)
Big Data(Coursera-ongoing)

Education

Aug. 2015 M.S. Physics — San Francisco State University (SFSU)
Thesis: *Effect of Anthropogenic Ship Noise on Plainfin Midshipman*

May 2010 Bachelors in Engineering (B.E.) Mechanical Engineering. — Mumbai University

Experience

Lecturer
Physics and Astronomy Dept. at *San Francisco State University*
Spring 2016- Present, Fall 2011- Spring 2015 (Graduate Teaching Instructor)

- Conducted demo sessions in the lab based on the complex concepts in undergrad. physics and algebra taught in lectures for a group of 25 students using MS Excel.
- Held weekly office hours for improving analytical skill and for problem solving for students.

Graduate Department Assistant
Engineering Dept. at *San Francisco State University*
Fall 2012 - Spring 2015

- Assisted Director with special projects involving technical design for creating, visualizing and tracking department metrics to monitor overall department performance, effectiveness of classes and lecturers using MS Excel, MS Powerpoint.
- Lead two department assistants and performed parallel tasks like regular administrative duties and technical support for faculty.

Research/Projects

BayAcoustic Lab
Researcher
Fall 2013 - Present

- Responsible for developing a data and statistical analysis algorithm in MATLAB and MS Excel to for quantitative analysis of the effect of anthropogenic noise on Plainfin Midshipman using numerical techniques.
- Achieved a 4 standard deviation positive effect.

Budget Application
Jan 2015 - May 2015

- Developed a single user budget application in C++ for managing monthly expenses using Visual Studio.

N-body Gravitational Model (Solar system)
Jan 2014 - May 2014

- Developed a solar system (n-body method) model as well as others using JPL's horizons web-interface in Python.

Publication / Presentation

[1] G.P. Rele, R. Bland,"Effect of anthropogenic noise from ship traffic on the mating call of Porichthys notatus in SF Bay", Poster,, 999th meeting of the American Geophysical Union, San Francisco, Dec. 8-12, 2014.