

Priyanka Sapkal

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EDUCATION

- **New York University** New York, USA
Master of Science in Computer Engineering *Expected 2020*
- **Savitribai Phule Pune University** Pune, India
Bachelor of Engineering in Computer Engineering *2016*

TECHNICAL SKILLS

- **Programming & Scripting Languages:** C++, Java, Python, Apex, VisualForce, MySQL, MongoDB, UNIX Shell Scripts, JavaScript, JSP, AngularJS, JQuery and PHP.
- **Mark-up Language:** HTML, XML and JSON, Bootstrap, CSS.

PROFESSIONAL EXPERIENCE

- **Smart Energy Research Group (SEARCH)** New York, USA
Graduate Assistant *September 2018 - Present*
 - Developed Peer-to-Peer optimization problem using MATLAB.
 - Implemented exogenous grid cost allocation policies and studied their effects on Peer-to-Peer electricity market.
 - Analyzing current energy distribution infrastructure between producers and consumers.
 - Optimizing Peer-to-Peer energy distribution and grid cost allocation using reinforcement learning.
- **Persistent Systems** Pune, India
Software Engineer *July 2016 - June 2018*
 - Developed enhancements using Apex and VisualForce for Bajaj Finserv, financial service.
 - Optimized code base to improve code quality by 72%.
 - Implemented 3 major Proof of Concepts (POC) using Salesforce Lightning.
 - Designed use cases and implemented test classes for corresponding apex classes.
 - Assisted in production deployments of enhancements using Salesforce and Apache ANT.

RESEARCH EXPERIENCE

- **Machine Learning for Cancer Treatment Prediction** Los Angeles, CA
Professor: Ramin Ramezani, Center for Smart Health *April 2017 - July 2017*
 - Proposed a novel technique using clinical data for predicting best treatment option for cancer patients.
 - Implemented multiple machine learning techniques using TensorFlow and scikit library in Python.
 - Modified the algorithm to obtain an accuracy of up to 85%.
- **Box Office Revenue Prediction Using Dual Sentiment Analysis** Pune, India
Computer Division, Persistent Systems *2015 - 2016*
 - Proposed a novel technique for analyzing the polarity of sentiments and predicting success of movies using twitter data.
 - Implemented Dual Sentiment Analysis in Java and developed the web application using Servlet, JSP.
 - Performed data sanitization on raw data to improve the system performance by 43%.
 - Implemented multivariate linear regression using sentiment analysis to achieve an accuracy of 90%.
- **Application for Preventing Runtime Information Gathering on Android OS** Pune, India
Computer Division, Bhabha Atomic Research Centre (BARC) *2015 - 2016*
 - Designed and implemented 3 new Runtime Information Gathering (RIG) attacks targeting Android OS.
 - Implemented a solution for each RIG attack using behavior - based malicious application detection system.
 - Optimized the solution by 85% for better performance using multithreading in Java.
- **Hospital Recommendation System** Pune, India
Computer Division, Sinhgad College of Engineering *2014 - 2015*
 - Predicted diseases using static knowledge base.
 - Implemented recommendation functionalities using C#.
 - Developed data model and performed database operations using MySQL.

CERTIFICATIONS & AWARDS

- 1st position, FinePro 2016 - Annual Computer Engg. Department Competition in category of Data Mining.
- Salesforce Platform Developer 1 Certification, 2017.

PUBLICATIONS

1. Rajput P., Sapkal P., Sinha S. "Box Office Prediction using Dual Sentiment Analysis", 2017, IJMLC, Volume 7 Number 4.