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

- 1^{st} position, FinePro 2016 - Annual Computer Engg. Department Competition in category of Data Mining.
- Salesforce Platform Developer 1 Certification, 2017.
- High Five Award 2018, Persistent Systems - For excellent performance in support activities and project development.

Publications

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