Priyanka Sapkal

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Education

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

Technical Skills

- Python, C++, Java, Apex, VisualForce, MySQL, JavaScript, Tableau, MATLAB, GitLab, JIRA, ANT, Gulp.

Professional Experience

- **NYU Information Technology** — Manhattan, New York
  Data Engineer Intern — *June 2019 - Present*
  - Implemented web data connectors using Rest APIs to integrate external systems with Tableau Desktop and developed visualizations to produce Service-Level Agreement reports.
  - Redesigned student feedback processing model by implementing Sentiment Analysis using Neural Network to improve the accuracy by 15%
  - Designed and developed website for Enterprise Data Management to consolidate business services, utilities and discussions.
  - Performed version control using GitLab and maintained track of projects, tasks using Jira.
- **Smart Energy Research Group (SEARCH)** — Brooklyn, New York
  Graduate Assistant — *Sep 2018 - May 2019*
  - Designed an optimization problem by analyzing price-consumption relationship in Peer-to-Peer electricity markets.
  - Implemented load forecasting to predict smart grid power congestion using Logistic Regression and Neural Networks in python and obtained an accuracy of 90% in predicting the load on hourly basis.
  - Improved grid cost policies to circumvent predicted power congestions.
- **Persistent Systems** — Pune, India
  Software Engineer — *July 2016 - June 2018*
  - Developed and delivered enhancements of loan application and management system in Salesforce and optimized code base to improve code quality by 72%.
  - Implemented 3 major Proof of Concepts leading to reinvention of Small and Medium Enterprise loan management system for improved processing speed and accessibility on mobile devices.
  - Initiated Continuous Integration and Continuous Delivery (CI/CD) practices to streamline the development and delivery processes using Git and ANT.

Projects

- **Machine Learning for Intrusion Detection**
  - Implemented Logistic Regression using Scikit-learn, Neural Network and Convolutional Neural Network using TensorFlow for network intrusion detection.
  - Obtained an accuracy of 85% to detect known and unknown attacks for 4 major categories of network attacks.
- **Wearable Air Guitar**
  - Developed a wearable air guitar to play 4 chords using Teensy 3.2 microcontroller, Teensy Audio Shield, Touch sensors and ADXL343 Triple Axis Accelerometer.
  - Programmed the microcontroller in C to transform touch signals through copper pads and acceleration of the accelerometer into corresponding notes of guitar.
- **Machine Learning for Cancer Treatment Prediction**
  - Proposed a novel technique to predict best treatment option for cancer patients by utilizing clinical and genomic data.
  - Implemented machine learning techniques using TensorFlow and Scikit library in Python to obtain an accuracy of 85%.
- **Box Office Revenue Prediction Using Dual Sentiment Analysis**
  - Proposed a novel technique for analyzing the polarity of sentiments and predicting success of movies using twitter data.
  - Implemented multivariate linear regression to achieve prediction accuracy of 90% by performing raw data sanitization.

Certifications & Awards

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

Publications

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