

Kapil Mulchandani

Master of Science in Software Engineering, SJSU

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SUMMARY

Computer science professional with 1 year of work experience. Currently pursuing master's in software engineering.

Core competencies includes Data Structure, Machine Learning Technologies, Algorithms, Java and Python.

EDUCATION

MS in Software Engineering, San Jose State University

Aug 2019 – May 2021

B.Tech in Information Technology, College Of Engineering Pune, GPA: 7.77/10

Aug 2014 – May 2018

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, JavaScript
- **Machine Learning Technologies:** Neural Networks, SVM, AutoEncoders, Tensorflow, Keras, Pandas
- **Web Technologies:** React, Drupal, HTML5, CSS, Bootstrap.
- **Frameworks:** SpringBoot MVC, Maven, Gradle
- **Other:** Docker, Kubernetes, Swagger, OpenShift
- **Tools:** Tableau, Git, Weka, PyCharm, Eclipse, IntelliJ, STS, TeamCity, Kafka, Astah.
- **DataBase Technologies:** MySQL, Oracle, MongoDB

PROFESSIONAL EXPERIENCE

Software Developer Analyst, Deutsche Bank, Pune, India

July 2018 – July 2019

▪ Anomaly Detection Algorithm

July 2018 - December 2018

- Developed an application to detect anomalies in the Bank's production dataset with the help of AutoEncoders, Neural Networks and Support Vector Machines with visualization via Tableau. The application can be used on any dataset, custom trained and can be hosted in Openshift container to act as a REST service.
- Deployed this application on Openshift so that it can be used as REST service, so that the model can be trained as well as tested with one service call.
- Technologies Used: **Python, Tensorflow, Keras, Pandas, Sci-kit learn, NLTK, Openshift, Flask, and Tableau.**

▪ Centralize Auditing Application

July 2018 - July 2019

- Developed a JAVA based web application which would solve the bank's problem of centralizing Findings, RFIs, Meetings and Audits.
- Technologies Used: **Java, React, Spring Framework, Hibernate, JPA, Maven.**

▪ CRUD Utility

February 2019 - May 2019

- Developed a React application which can be used to execute CRUD operations with the help of ag-grid. For executing multiple CRUD operations, a sample JSON was provided and by just editing the values in the JSON and making a POST call to the service the CRUD operations get executed.
- Technologies Used: **ReactJs, JSON, HTML, CSS.**

Software Developer Intern, ACI Worldwide, Pune, India

June 2017 - July 2017

- Developed an application for replacing Actuate reports with JasperReports which was used for the company wide migration of Actuate reports to JasperReports. This was embedded with encryption algorithms RSA and AES for security purposes.
- Technologies Used: **Java, HTML, CSS, JS.**

ACADEMIC EXPERIENCE

Political Opinion Mining using Twitter

August 2019 - Nov 2019

- With the commencement of upcoming 2020 Presidential Election, derived the most popular and favored democratic candidates by processing and analyzing people's sentiment by tweets classification using **Logistic Regression, SVM, Gradient Boost** and **Naive Bayes** in Python with Data Visualization in **Tableau**.

Avengers Action Game

August 2019 – Nov 2019

- With the use of different design patterns such as **Strategy, Command, Factory, Observer, State** and **Decorator** developed an action game in which the user can select from any of the 6 Avengers and has to surpass 4 levels in order to save the planet by defeating the master villain Thanos. Used **JAVA** and **Greenfoot** for implementation.

Automated Pet Surveillance System

August 2019 – Nov 2019

- Designed a device using **Raspberry Pi** which will monitor the pet using webcam, dispensing food for the pet using **SG90 Servo Motor** and report any unusual activity using **Electret Microphone Amplifier MAX4466** by sensing and recognizing sound of the pet with the help of **python** script.

Context Based Face Recognition System For Videos

August 2017 - April 2018

- Designed and developed a **Python** application that recognizes a person in the video and also searches the files(videos/images) in which the person is present based on facial parameters.
- First the faces are detected using **OpenCV**, images are vectorized, feature extraction takes place, **PCA** for analysis, **LBPH** for recognizing the faces and a blend of Neural networks.