Kapil Mulchandani

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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, Algorithms, Java, Python and Machine Learning Technologies.**

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.
- **DataBase Technologies:** MySQL, Oracle.

PROFESSIONAL EXPERIENCE

Analyst, Deutsche Bank, Pune, India   *July 2018 – July 2019*

- **Anomaly Detection Algorithm**
  - 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**
  - 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**
  - 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.**

EXTRA CURRICULARS

Web Team Head for the Annual College Fest.

Member Of Core Committee of TEDxCOEP.

Gold medal winner in Inter College Sports Fest for Baseball**.**

▪   ACADEMIC EXPERIENCE

Context Based Face Recognition System For Videos   ▪

  - 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.
  - Technologies used: **Python, MATLAB, OpenCV**.

IMDB Movie Rating Predictor

  - Developed a JAVA application that predicts the rating of the movie using the parameters : Actors, Genre, Director and Plot keywords. Naive Bayes and ID3 classification algorithms were used to predict the rating along with WEKA as a supporting tool. IMDB database was used to train the model.
  - Technologies Used: **Java, Java Swing, WEKA.**