Arjun Malhotra

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Software Engineer with 4 years' experience working in Java and Python. Looking for full time opportunities, in the fields of Software Engineering and Machine Learning. I graduate in May 2020.

Education

University of Virginia, School of Engineering and Applied Science

Masters in Computer Science — August 2018 - May 2020
Relevant Coursework: Advanced Algorithms, Natural Language Processing, Operating Systems, Text Mining, Machine Learning, Information Retrieval, Cloud Computing, Database Systems.
GPA - 3.87/4.0

B.V. Bhoomaraddi College of Engineering and Technology (VTU University), India

Bachelors of Engineering in Computer Science — August 2010 - June 2014

Skills

Languages/Technologies: JAVA, Python, C, SQL, Spring, Spring JPA, Redis, Kafka, Restful APIs. | **Operating Systems:** Linux, Windows | **Areas of Interest:** Software Development, Machine Learning, Cloud Computing. | **Tools:** Git, Docker, AWS

Work Experience

Hitachi Vantara: Intern — May 2019 – July 2019

- Developed an automated python script to convert JSON file containing vulnerabilities (per Azure CIS security benchmarks) to an excel format that would be used by business users.

Tata Consultancy Services: System Engineer — July 2014 – April 2018

Linux Administration for one of the leading Pharmaceutical Companies of the world.

- Managed servers to increase performance by performing routine checks, increasing file system size, increasing memory size etc. on Linux servers.
- Defined and configured security policies. Was also responsible for server installations and qualification.

Project Experience

- **Library Management (Spring + Restful APIs):** Developed a web app (micro-service) using Spring Boot, JPA, MySQL and RESTful APIs for Library Management System where a user can search and rent a book (with email notification). Also, an admin can update user's membership and create, update and delete books/users as well.
- **Predict Stack Overflow Tags:** Developed a Machine Learning model to predict the tags of Stack Overflow questions. Applied classic Machine Learning model, Logistic Regression and used Deep Learning model – LSTM, to predict the coding language tag.
- **Semantic Analysis - Detecting questions with same intent on Question-Answering platforms:** Built a machine learning model using Quora questions data, that detects questions that have similar intent. Used Natural Language Processing concepts like GloVe embedding, and classification techniques like Logistic Regression, Linear SVM, Random Forest and Gradient Boosted Decision Trees to solve this problem. Since it was a classification problem, used metrics such as confusion matrix, precision – recall, F1-score and log loss to evaluate the performance of our model.
- **Semantic Analysis- Predicting User Expertise:** Applied K-means Unsupervised Machine Learning algorithm to Amazon Reviews on a MicroSD card, to cluster the reviews as per the intellectuality of the user comments. Documents were represented using BOW, TFIDF, Word2Vec, Average Word2Vec and TFIDF Word2Vec, vector representations.
- **Analyzing Patient data:** Predicted if a patient would be readmitted into the hospital, using the classification Machine Learning algorithms like Logistic Regression, Linear SVM, Random Forrest, XGBoost and Decision Tree Classifier on appx 100,000 patients.

Honors and Awards

- Won the Idea Jam Safety award at Smarter Roads Hackathon: Frederiksberg in September 2018. For proposing a Machine Learning solution to predict the crashes for the state of Virginia.
- Awarded "Special Initiative Award" while working with TCS – for taking an initiative to learn new technology.