PRIYANSHI SOMANI

Website: priyanshisomani.github.io
+1 5512276634 ◇ psomani@umass.edu

EDUCATION

University of Massachusetts Amherst *Jan 2021- Apr 2022*
MS in Computer Science with specialization in Data Science
Ongoing Courses: Machine Learning, Distributed Operating Systems, Applied Information Retrieval

National Institute of Technology Bhopal *Aug 2013- May 2017*
B.Tech in Computer Science & Engineering GPA: 8.80
Courses completed: Database Management System, Computer Networks, Data Mining,
Object Oriented Modeling and Design, Data structures, Operating System, Artificial Intelligence, Algorithms, Probability

INDUSTRY EXPERIENCE

Adobe Inc. (Software Engineer-II) *June 2017 - Jan 2021*

- **Developed an anomaly detection system to find any inconsistencies in the stream of artifacts produced by a software product/service.**
- Applied density based K-means clustering on input data that was generated based on size and the time of generation of the artifact.
- It caught more than 4000+ failures in a span of the first 3 months of its rollout.
- It was integrated by multiple products to improve the quality of their artifacts delivery.

Technologies Used: Java 8, Python, Tibco EMS, MySQL, Git, REST APIs

- **Implemented named user licensing in Adobe Lightroom app to make the licensing strategy consistent with Creative Cloud and move out of legacy serial based licensing.**
- This contributed to mitigation of piracy that affected revenue from subscription.

Technologies Used: C++, Objective-C, Git

- **Developed end to end automation for Adobe Lightroom Classic CC.**

Technologies Used: : Python, NodeJS, Apache Ant, Jenkins, Bash Shell Scripting, Git , Artifactory, Chef infra, OpenStack APIs

PROJECTS

Wind Turbine Performance monitoring using logistic regression.

- Employed monitoring based approach by fitting regression models, essentially generating power curves using four parameter and five parameter logistic regression when the turbine is in a healthy state.
- When new data comes in, it is compared to what the model predicts for a healthy state and if a deviation which is calculated using Mahalanobis distance is found for several consecutive time intervals, an alarm is raised.

Technologies Used: Matlab

Implementation of Deep Web Crawler for mining searchable interfaces.

- Determined searchable interfaces using complex xpath queries.
- Iteratively applied tf-idf against the content of the parent page and the results rendered from previous search to get the next set of relevant terms to be searched.

Technologies Used: Python

TECHNICAL SKILLS

Programming Languages	C++,C,Python
Libraries & frameworks	MySQL, REST, Github, AWS