

Employment

Software Engineer **Comcast** **Jul 2019 – Dec 2019**

- Created data-pipeline with amazon kinesis, S3 and PrestoDB. Also developed supervised machine learning to find the fraud detection.
- Developed Spring Boot application which pulls the data and dump in DB like ETL tool.

Software Engineer **IBM Cloud** **Jan 2019 – Jun 2019**

- Created Dashboard for data analytics and applied Machine learning model to automate the process.
- Worked on Micro-services with Python Flask for application development, Dockerize and deploy on Kubernetes Clusters.

Software Engineer **Hewlett Packard** **Mar 2017 – Dec 2018**

- Worked on developing highly available, scalable, real-time web applications using Spring MVC framework.
- Converted site minder authentication to OATH using RESTful services.
- Worked on various cross domain like WebLogic, Apache Server, REST/SOAP API, Java, JDBC/Hibernate, UNIX, and Linux, Jenkins, MVC, Subversion, Security etc

System Engineer, India **Tata Consultancy Services** **July 2012 – Dec 2014**

- Developed a java application for banking portal which can handle financial transactions.
- Automated Control-M/Cron jobs and also improved the performance on data load in Database.

Education

Ames, IA **Iowa State University** **Spring 2020 –till date**

- PhD in Computer Science, Jan 2020 – till date.
- M.S. in Computer Science, Jan 2015 – Dec 2016.

Dhanbad, India **BIT, Sindri** **Fall 2008 –Spring 2012**

- B.Tech. in Electronics and communication Engg., May 2005.

Technical Experience

Projects

- **Traffic Sign Classifier** Developed CNN to classify traffic sign on German sign traffic datasets.
- **Dog Identification using CNN and pre-trained model** Developed CNN model, used dropout and regularization technique, used various pre-trained models like ResNet, VGGNet to identify images.
- **Smart Cab** Developed Q-Learning driving agent, used Policy and sub-optimal policy for max positive rewards. Achieved Safety rating A+, Reliable rating A

Additional Experience and Awards

- **KG Lore, N Sweet, K Kumar, N Ahmed, S Sarkar** Deep value of information estimators for collaborative human-machine information gathering - 2016 ACM/IEEE 7th International Conference on Cyber-Physical Systems (ICCPS).
- **Second Prize, All terrain Vehicle(SAE):** Awarded 2nd prize in Baja SAE, India for all terrain vehicle in safest category.

Languages and Technologies

- **Programming Languages:** Programming Languages: Python, R, Java, C++, Matlab/Octave, Spring Boot
- **Frameworks and Tool-kits:** Tensorflow, Pytorch, Keras, Numpy, Pandas, Matplotlib, Hive, Spark, HBase, Leaflet, D3.js, Pig.
- **Database:** SQL, Oracle, Teradata, neo4j, Titan DB