

# Amit Kumar

ASSOCIATE CONSULTANT · DATA SCIENTIST

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*"A passionate self-learner who loves to explore new technologies, develop software solutions and quick hacks."*

## Skills

<b>Languages</b>	Python · SQL · NoSQL
<b>Technologies</b>	Machine Learning · Deep Learning [ANN,CNN] · Predictive Modeling · NLP · Data Analysis · Visualization
<b>DevOps</b>	AWS[Redshift-Lambda-EC2-S3] · Github · Github Action · Jenkins · Jira · Control-M
<b>Tools</b>	Tensorflow · Keras · MySQL · MongoDB · Flask · Power BI · MS Excel

## Work Experience [2.5 Years]

### Capgemini-KLA Corp.

*Python,SQL,Machine Learning*

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*Mar. 2021 - cont.*

- Built and Implemented a fully automated customized **Machine Learning** framework for semiconductor faults detection and classification (FDC) to monitor and analyze **Wafer Fabrication** profile data.
- Model is built on analyzing 600 sensor data on each wafer using **KNN,k-means clustering, Random forest, XGBoost**. After performing multiple tests on input data and transforming, several clusters are created dynamically using k-means clustering and elbow plot. For each cluster best model among Random forest and XGBoost is finalized using roc-auc or accuracy score. The final result is maintained on Teradata for subsequent use in production.

### Capgemini-Telia

*Python, SQL, Jira, Jenkins, BitBucket*

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*Nov. 2019 - Feb. 2021*

- Built a fully automated **CI-CD pipeline** that automated the processes of System Integrated Testing. The pipeline was hosted on **Bitbucket**, deployed using **Jenkins** that fetched Test queries from **Jira**, executed on **Teradata**, automatically Create or Update Test Execution in Jira and created and assigned defects to the respective developers, resulting in the elimination of 80 % manual work and escalation of work efficiency.
- Created multiple script that automated earlier manual processes which reduced the human error and speed up production process. Notable ones are: [script to check for new,updated,decommission jobs pre and post deployment on control-M],[script to keep a check on deviation daily and weekly jobs]
- Managed **Control-M** deployment in testing env,creating test cases,maintaing Jira and Creating detailed report in every deployment cycle.

## Key Projects

<b>Your Bollywood Sibling</b>	Deep Learning · Find the closest looking Bollywood Celebrity based on image provided by user. · <a href="#">App</a> · <a href="#">Git</a> Model has been trained on CNN using VGGFace,Resnet50,CV2,MTCNN,PIL has been used for image processing.
<b>Movie Recommendation</b>	NLP · Recommend multiple movies name based on last last movie selected by user. · <a href="#">App</a> · <a href="#">Git</a> A Content based NLP recommender system which predicts outcome based on cosine similarity.
<b>T-20 Score Prediction</b>	Machine Learning · Predict the final score of the first inning based on multiple condition of the match. · <a href="#">App</a> · <a href="#">Git</a> Model has been trained using RandomForestRegressor and XGBRegressor.
<b>Olympic Analysis WebApp</b>	Data Analysis · Interactive Web Dashboard built using pandas and streamlit to analyze Olympic Data. · <a href="#">App</a> · <a href="#">Git</a>
<b>AtliQ Harware Sales Insight</b>	Data Analysis · Power Bi Dashboard to give quick and latest sales insight. · <a href="#">Git</a>

## Certifications

Coursera	<b>IBM Data Science Professional Certificate,</b>	<a href="#">Verify</a>
Udemy	<b>Complete Tensorflow 2 and Keras Deep Learning Bootcamp ,</b>	<a href="#">Verify</a>
AWS	<b>AWS Certified Cloud Practitioner,</b>	<a href="#">Verify</a>

## Education

### Jadavpur University

*Jadavpur, Kolkata*

B.E. IN CHEMICAL ENGINEERING

*April. 2015 - April. 2019*