

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

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

Work Experience

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

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

Certifications

Coursera	IBM Data Science Professional Certificate,	Verify
Udemy	Complete Tensorflow 2 and Keras Deep Learning Bootcamp ,	Verify
AWS	AWS Certified Cloud Practitioner,	Verify

Education

Jadavpur University

Jadavpur, Kolkata

B.E. IN CHEMICAL ENGINEERING

April. 2015 - April. 2019