JATOTH BHARATH KUMAR

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WORK EXPERIENCE

- **SOFTWARE ENGINEER AT CGI** *Aug 2017 – Oct 2020*
  Designing Intelligent Systems with the help of Machine Learning which help the Organization to complete work at a faster pace. Also have an experience in Devops. 3 projects developed are selected as the best innovative projects by ICE council at CGI.

- **FREELANCE SOFTWARE DEVELOPER** *Oct 2020 – Present*
  As a freelance developer I was working on those project's which excites me more. In this process I found out my interest in drug discovery and planning to work on this as independent research apart from doing other projects too.

EDUCATION

Bachelor of Technology from IIT Guwahati (2013–2017) with major in Computer Science (CSE).

TECHNICAL SKILLS

- **Programming Languages :** Python, C, C++
- **Database Management :** MySQL, MongoDB, PostgreSQL
- **Machine Learning Frameworks :** Tensorflow, Keras
- **Cloud Environments :** Azure, Google-Cloud, AWS
- **Web Technologies :** Django, Flask, Angular

PROJECTS

DEEP FRAGMENTATION *Aug – Dec 2016*

- Developed a system which takes the input as image and gives the description of the actions going on in the image. It is built by using a CNN followed by RNN attached after the Fully Connected layer in CNN.

INTELLIGENT AUTOMATION WRITER *Aug – Dec 2017*

- To resolve the problem of developing new summaries for each new release of software version, developed an Automatic Document writer using RNN. This model generates new summaries by predicting the next word using Markov Model.

- Trained by using the frequently occurred bigrams in the previous version's documentation. Used BLUE score to stabilize the best outcome of a sentence which resulted in reduction of Technical writer's job by 50-60%.

INTELLIGENT AUTOMATIC PROPOSAL ENGINE *Jan – Aug 2018*

- To tackle the problem of internal search engine developed a semantic based intranet search engine using NLP which is also capable of automating the RFP generation process.
- Achieved this using clustering algorithm Tf-IDF, LSA + SVD on top of it to create the model and Django to connect the server. This resulted in reduction of 70% man power and is secured as hosted in client servers. Selected as one of the best project at CGI global meet 2018.

ENTRY BASED ON THE FACIAL RECONGNITION *Sept 18 – Mar 19*

- To reduce the time taken for entry and eliminate proxies, developed a system which identifies a person accurately and open the gate with promising accuracy
- I had achieved this through using CNN along with liveliness detection. Used keras to build this architecture which resulted in saving valuable time of employee each day.

CLOUD TO CLOUD MIGRATION *Apr – May 2019*

- To reduce the time taken to get the data from one cloud environment to another, made a pipeline to directly migrate data from one to other.

INTELLIGENT AUTOMATION PLATFORM *June – Dec 2019*

- Implemented Service Modelling Which enriches data using MangeIQ Cloud Management System. Data has been enriched to see at what stage the problem lies in the server.

OCR PROJECT FOR CLIENT *Jan – June 2020*

- Implemented POC for a banking firm client, in choosing the best OCR solution out of the best possible solutions available. Accuracy and speed of processing have been taken into consideration in suggesting client for the best possible solution

ANALYSE DEVOPS LOGS *July – Sept 2020*

- To tackle the problem of huge logs analyzing, designed a small solution to extract the best information possible out of the logs which were generated on a daily basis. This solution includes the dashboard development which flags the critical issues automatically.

COURSES TAKEN

- Deep learning
- Machine Learning
- Algorithms and Data Structures
- Networks
- Databases
- Psychology