Akhil Shukla

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WORK EXPERIENCE

SAMSUNG RESEARCH INSTITUTE BANGALORE | STUDENT TRAINEE   Remote, ON | Jun 2021 – present
- I am working on the **Proof Of Concept** of Service Enabler Layer for 5G Verticals (SEAL).
- SEAL is an interface between 3rd parties like Vertical Application Layer (VAL) and various cellular networks including 5G Core Network.
- I am tasked with implementing the SEAL server (SEAL-s) for the location management APIs as per **3GPP standards**.
- This task also involves implementing the Network Exposure Function's (NEF) simulator. NEF's duty is to expose the 3GPP Core Network capabilities for the consumption by 3rd parties.
- Both NEF-Sim and SEAL-s are being implemented in **GO** language with the **MongoDB** and **MySQL** databases respectively.

EDUCATION

B.Tech. Information Technology   Allahabad, ON | Aug 2018 - present
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, ALLAHABAD
CGPA(current): 8.59

Class 12th   Kanpur, ON | 2017-2018
SUBHASH PUBLIC SENIOR SECONDARY SCHOOL (CBSE)
Percentage: 90.8%

Class 10th   Kanpur, ON | 2015-2016
SUBHASH PUBLIC SENIOR SECONDARY SCHOOL (CBSE)
CGPA: 10

PROJECTS

ANALYSIS OF FACEBOOK GROUP DATA ⬈   PYTHON, MONGODB, GRAPH API, KERAS, ANN
This project was a group project. It involved scraping data from an educational Facebook group run by **IIM-A**, using Facebook's Graph API, then preprocessing of data like converting image data to feature vectors using **VGG16** and extracting sentiment values from comments using **NLTK**.
This data is then used to visualise the group activity. A **multi-modal(visual and text)** Neural Network was then built using Keras for the prediction of reaction-counts of the posts.
Here I contributed to the whole project except for extracting the sentiment values and visualisation part.

MUSICORUM (ANDROID PIANO APP) ⬈   JAVA, ANDROID STUDIO
It's an **Android APP** built to help music enthusiasts to learn how to play some basic piano tunes using the on-screen piano, it also allows users to share their own tune to other users.

TRAIN SIMULATOR ⬈   JAVA, OBJECT-ORIENTED DESIGN, JAVAFX
A **Desktop Java application** that simulates the movement of trains on virtual tracks between various stoppages to create a time vs displacement chart.

AUDIO CHAT ⬈   C, COMPUTER NETWORKS
Client-server program that provides text and voice chat facility using stream socket and lportaudio library with the command line interface leveraging select syscall.

SKILLS

Languages:
Experienced: C++,C
Intermediate: Java, Python, C, SQL
Beginner: Go

Technology:
Intermediate: Git, MySQL, MongoDB, Linux