Saksham Kumar

+91-9211090028 | kumarsaksham54@gmail.com | linkedin/ksak54 | github.com/ksak54

EDUCATION

Dr. Akhilesh Das Gupta Institute of Technology and Management	8.1 till 6th sem
Bachelor of Technology in Computer Science and Engineering	*Aug. 2017 – May 2021*
Kendriya Vidyalaya No. 2 AFS Hindan	10th - 9.6/12th - 89.6%
SSC/ HSC	*April. 2014 – May 2016*

PROJECTS

Path Finding Algorithms Visualization | *Python, Pygame* — Feb 2021
- Used Pygame to create a GUI application allows user to visualize different path finding algorithms.
- Implemented Dijkstra, DFS, BFS, A* algorithms.
- Used Disjoint Set Union algorithm to create random maze.

Facial Recognition Based Attendance System |*Python, OpenCV, TKinter, MSExcel* — Aug 2020 – Present
- Developed a GUI application for storing marking attendance of students using data collected from facial features.
- Used OpenCV & Haarcascade classifier for collecting data from facial features.
- Used Pandas for marking recognized students attendance on excel sheets with timestamps.

Machine Translation (Android + Deep Learning) | *Firebase API, Java, Tensorflow* — Nov 2020 - Jan - 2021
- Developed an Android application for translation of text extracted from non-binarized / colorful images
- Used Firebase API to extract Text from Images
- Implemented a LSTM Neural network and hosted it on Firebase to translate text extracted from the images.

Blogger (Android Application) | *Firebase API, Java* — Nov 2019 - Jan - 2020
- Authenticates user and allow him to post blog and stores it in realtime database.
- Firebase is used for user authentication and Realtime Database is used for storing and fetching data

TRAINING AND COURSES

Data Structures and Algorithms in Java by Coding Ninja — Oct 2020 – Feb 2021
- Learned about different data structures like linked list tree, graph etc and their uses.
- Learned about different algorithms like 0-1knapsack, LCS etc and their uses.

Deep Learning Certified by PadhAI (One Fourth Labs) — Jun 2020 - Aug 2020
- Learned about Neural Networks and their uses.
- Learned about LSTMs and GRUs and their uses.
- Learned about different weight updation algorithms like - Gradient Descent, Adam etc.

Deep learning using Tensorflow 2.0 by Lazy Programmer Inc — Sep 2020 - Nov 2020
- Learned to use Tensorflow Serving to serve model using a RESTful API
- Learned to use Tensorflow Lite to export model for mobile (Android, iOS) and embedded devices
- Time Series Forecasting and Recommender System

ACHIEVEMENTS

Nationals in Table Tennis	2014
Played KVS Nationals in Table Tennis hosted at Chandigarh	
Participated In Valorant India Tournament	2021
Paritcipated in valorant India tournament hosted online	
Secured 1st position in On The Spot Olympiad Hosted by Arihant	

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, SCSS
Frameworks: TensorFlow, SciKit Learn
Developer Tools: VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: Pandas, NumPy, Matplotlib