Akhil Singh

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EDUCATION

Indian Institute of Information Technology, Allahabad   Allahabad, U.P.
BTech in Information Technology (IT)   2018-present
CGPA : 8.78 (6 semesters)
[Semester I - 8.62, Semester II - 8.97, Semester III - 8.14, Semester IV - 8.51, Semester V - 8.85, Semester VI - 9.45]

Radiant International School, Patna   Patna, Bihar
XII (CBSE Board) : Percentage: 93.40   2017
X (CBSE Board) : CGPA : 9.40   2015

WORK EXPERIENCE

Samsung Research Institute - Bangalore   Remote | May, 2021 - July, 2021
Student Trainee, Visual Intelligence Team
Worked on Spatial Ordering on Multiple Video Streams. Designed and implemented algorithm with improved accuracy in scene matching process by outlier detection and removal, along with Android Application for User Interface.

The Sparks Foundation   Virtual | May, 2019 - July, 2019
Student Developer Intern
My task was to implement a REST API using SpringBoot Framework, JPA and Hibernate interacting with a MySQL database along with a front-end integration displaying functionality. Programme also involved helping other interns with SpringBoot Framework.

PROJECTS

Heterogeneous Semantic Analysis on Facebook Group Data | Academic   4 months
Project involved extracting data from Facebook Group for teachers undergoing a personality development program handled by IIM-A. Extract data using Facebook Graph API, perform semantic scoring using NLTK, extract text and image features using VGG16 of posts and combine to form a multi-modal neural network model for predicting reaction on the basis of post data.
Technology Used: Python, Keras, NLTK

GraphIt - Graph Algorithms GUI | Independent   2 week
Implemented GUI for creating graphs and manipulating vertices and edges using mouse events and keyboard interrupts.
React based user-friendly platform independent application for making graphs with editable nodes and edges showcasing multiple graph based algorithms BFS, DFS, Dijkstra Shortest Path, Topological sort..
Technology Used: React JS, Create React App

Blockchain Implementation   3 months
Implemented basic blockchain network including adding/removing peers from network, handling transaction verification, proof of work and mining blocks, adding blocks, choosing main chain in case of fork and validating blocks.
Technology Used: Python, Distributed Systems, Computer Networks

Building Detection in Satellite Images   3 months
Developed and trained U-Net architecture for detecting buildings from multispectral high-resolution aerial images combining shallow and higher level feature maps in convolutional Neural Networks.
Technology Used : Python, Keras, Kaggle Platform

SKILLS & COURSEWORK

- Programming in C++, Java, Python, PHP
- Frameworks - SpringBoot, React
- Data Structures and Algorithms
- Database Management System
- Machine Learning
- Object Oriented Programming Concepts
- Data Mining
- Blockchain & Cryptocurrency
- Cognitive Process Modelling

CERTIFICATIONS

Kaggle Certificate in Intro to SQL and Advanced SQL
Google's Workshop Explore Beginner Track Certificate

ACHIEVEMENTS

Codechef June LunchTime, 2021 - Global Rank 157
Scholar's Badge - Senior Secondary School   2017