Sahil Singh

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EDUCATION

KIIT UNIVERSITY
B.Tech in Computer Science
Sep 2020 - Aug 2024 | Odisha, IN
Computer Science Engineering
CGPA: 9.15 / 10.0

ARMY PUBLIC SCHOOL
Grad. May 2020 | Uttar Pradesh, IN
Physical Sciences with CS Major
Percent Grade: 80%

SKILLS

PROGRAMMING
• **Languages:** Python, C/C++, Java, R.
• **Frameworks:** TensorFlow, Scikit-learn, PyTorch, Numpy, Pandas, OpenCV, SQLite, PyQt5, Tkinter, Git, HTML, CSS, Flutter.
• **Cloud Services:** Google Cloud, Microsoft Azure, Amazon Web Services.

ACCOMPLISHMENTS

LIFT SCHOLAR 2022
Selected among the list of top **50** recipients throughout the world in the **Shubhra Kar Linux Foundation Training (LiFT)** Scholarship Program 2022.

NASA COMET DETECTION
Built an AI tool for low visibility type C comets detection for NASA Comet Detection Marathon Match and secured **24th/650** rank.

GEEKSFORGEEKS
Earned the title of "**Code Community Helper**" and "**Budding Influencer**" for conducting technical workshops and promoting opensource among students.

GOOGLE CODE IN 2018
Top **15/3500**. Was among the list of finalists selected by my organization.

COURSEWORK

UNDERGRADUATE
Data Structures Algorithms
Computational Intelligence
Quantum Computing
Artificial Intelligence
Machine Learning

LINKS:
linktr.ee/sahilsingh2402

EXPERIENCE

JNCASR, BENGALURU
Research Intern   Dissertation project
Feb 2023 – Present   Karnataka, IN
- Working on development of automated behavioural classifiers for social interactions in Drosophila melanogaster.

INDIAN INSTITUTE OF TECHNOLOGY, GUWAHATI
Summer Research Intern   Student Researcher
May 2022 – Jul 2022   Assam, IN
- Learnt about artificial neural networks and their mathematical modeling.
- Worked on design analysis of combinational neural logic systems.
- Using PyTorch for implementation of logic gates through neural networks and performance measurement.

MICROSOFT STUDENT COMMUNITY, KIIT
Machine Learning Engineer   Project Wing 2021
Oct 2021 – Dec 2021   Odisha, IN
- Collaborated with the MSC KIIT team to build a Music Recommendation App.
- Researched methods for machine learning algorithm selection, training and evaluation. Also worked on web designing the interface of the application.
- Implemented k-means clustering algorithm to cluster songs of similar genre.

LETSGROWMORE
Data Science Intern   LGMVIP 2021
Sep 2021 – Oct 2021   Odisha, IN
- Developed a handwritten digit classification tool and image to sketch converter using convolutional neural network and computer vision libraries.
- Implemented machine learning techniques on the tasks related to classification, recommendation, and prediction on the given data sets.

FOSSASIA
Open Source Contributor   Google Code In 2019
Oct 2019 – Dec 2019   Virtual, IN
- Teamed up with fossasia organization and contributed to their open source repositories and projects by completing tasks.
- Gained knowledge about open source and became a community member.

PROJECTS

COMBINATIONAL LOGIC CIRCUITS MODEL   May 2022 - Jul 2022
- Designed and implemented combinational logic gates/circuits using neural networks. Used transfer learning to build a neural net with the lowest latency for combinational circuit operations.
- Tech Stack : Python, PyTorch, Matplotlib, Numpy.

MUSIC RECOMMENDATION WEB APP   Oct 2021 – Dec 2021
- Built a music recommendation web app which analyzes users music taste and cluster songs using k-means algorithm to generate playlists.
- The artificial neural network then compares the generated playlists and suggests the best one to the user.
- Tech Stack : Python, Numpy, Pandas, Scikit-learn, TensorFlow and Flask.