ANISHA AGRAWAL

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EDUCATION

IIIT Naya Raipur	**Dec 2020 – July 2024**
B.Tech - CGPA - 9.10	*Raipur, Chhattisgarh*
Ryan International School	**2019 – 2020**
CBSE - 12th - Percentage - 95.8%	*Raipur, Chhattisgarh*

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, HTML, CSS
Tools: VS Code, Git/GitHub, AWS, Adobe Illustrator
Libraries: OpenCV, Numpy, Scipy, Scikit-learn, TensorFlow, Keras, Pandas, Plotly
Technologies/Frameworks: MySQL, React, Node.js, Flask, PyTorch

EXPERIENCE

Samsung R&D   **Aug 2022 – Present**
PRISM Developer Intern
- Working on the development of algorithms to generate synthetic data with multiple ways of annotation for Handwritten Text recognition (HTR).

PROJECTS

Millet Crop Disease Identification | Image Processing, Deep Learning   **Feb – June 2022**
- ∗ Worked on a robust and automated deep learning based leaf disease detection and classification system.
- ∗ Used OpenCV to make an integrated approach for Image Processing and Image segmentation on a real-field dataset, achieved accuracy 98.18% with MobileNet-v2.

Cerebral Infarction Classification using PPG Signals | Machine Learning, Signal Processing   **May 2022**
- ∗ Worked on a cost-friendly, non-invasive and fast early stroke detection system.
- ∗ Savitzky–Golay filter used to remove signal noise, Synthetic Oversampling using SMOTE.
- ∗ Achieved accuracy of 95.72% and f1-score of 0.958 with LightGBM after cross validation, among 10 models.

Algopylib 🔗 | Python, MyPy   **May – July 2021**
- ∗ A pip library that contains modules for math functions and algorithms including those of statistics, geometry, combinatorics, and puzzles commonly used by programmers.
- ∗ Has recieved over **4.8K** user downloads on Python Package Index (PyPI). Link here.

Crime Record Management System 🔗 | MySQL, PHP, HTML, CSS   **Jan – Feb 2022**
- ∗ A database system for maintaining crime records, removing the need of tedious paperwork.
- ∗ Contains functionalities for filing FIRs, and keeping crime, criminal, police stations and officer records.

EXTRACURRICULAR 🔗

GirlScript Summer of Code   **March – Aug 2021**
Contributor
- ∗ Actively contributed to multiple open source projects, made PRs based on Front-End Web Development.

The Society of Coders   **Aug 2021 – Present**
Core Member
- ∗ Organized multiple competitive coding contests where problems were self-brainstormed, helped over 120 students kickstart their coding journey.
- ∗ Lead organizer at various hackathons, including Hack-a-Sol 2.0, the pan India hackathon hosted by IIITNR, and HackManthan - organized with Chhattisgarh Police.

ACHIEVEMENTS

- 2X Kaggle Expert
- Competitive Coding: **Codeforces** - 1085, **Codechef** - 1689 (3 Star), Global rank of 3358 in Google Kickstart.
- Received INR 25,000 as the 2nd Runner-up at CNI Hackathon 2022 organized by IISc Bengaluru.
- Semi-Finalist at Flipkart GRiD 4.0, among 150,000 registered candidates.
- School Topper in both 10th and 12th grade.
- Received INR 30,000 for securing 2nd position at a national level art competition.