

# ANKIT SINGH

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## EDUCATION

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**International Institute of Information Technology, Naya Raipur**

2020 - 2024

Data Science and Artificial Intelligence

**CGPA: 8.27 of 10.00 till 5th Semester**

**Delhi Public School, Bhilai**

2005 - 2019

Higher Secondary Certificate and Secondary School Certificate

Risali Sector, Bhilai, Chhattisgarh

**CBSE Board Score Class 12(2019) : 91.8%**

## SKILLS

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- **Languages:** Python, C/C++, HTML, SQL
- **Technical Skills:** Data Analysis, Machine Learning, Data Structures, OOP
- **Frameworks/Libraries:** Pandas, Numpy, Plotly, Scikit-learn, OpenCV, Streamlit, Flask, TensorFlow, PyTorch, Keras
- **Tools/Technologies:** Linux, Jupyter Notebook, Google Colab, Git, PostgreSQL, MySQL, Power Bi, Tableau

## EXPERIENCE

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- Mentee at **Microsoft Intern Engage Program, 2022** May 2022 - July 2022
  - Built a **Data Analysis App** for automotive industry.
  - Used **Streamlit** as frontend and **k-means clustering** algorithm at backend of the program.
  - Used **Jupyter Notebook** for Data Cleaning and Pre-Processing and **Plotly** library for visualizing data.

## PROJECTS

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### Masked Face Recognition Dataset

- Created own dataset which contains images with variations in pose, illumination, resolution, and the variety of masks worn by the subjects.
- Benchmarked the performance of existing face recognition models like **FaceNet** and **GoogLeNet** on the dataset.

### Progressive Growing of GANS for Improved Quality, Stability, and Variation

- A new training methodology for generative adversarial networks.
- The key idea is to grow both the generator and discriminator progressively: starting from a low resolution, we add new layers that model increasingly fine details as training progresses.
- A new metric for evaluating GAN results, both in terms of image quality and variation. As an additional contribution, constructed a higher-quality version of the CELEBA dataset.

### Data Analysis App for Automotive Industry

- Developed an application to demonstrate how the Automotive Industry could harness data to take informed decisions.
  - Demonstrated the use of data analysis in identifying and visualizing most popular car specification combinations (cost, engine type, fuel, mileage, etc).
  - **Segmentation** of cars into different clusters based on these combinations.

## ACHIEVEMENTS AND CERTIFICATIONS

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- Microsoft Engage 2022
  - Selected and placed among top 3000 students out of over 100,000 applicants.
- Earned a Certificate of Proficiency in Code Foundation for ROS issued by The Construct.