

# ANKUR ROY

Data Scientist

+91 9971340142 | [ankurroy9971@gmail.com](mailto:ankurroy9971@gmail.com) | [in/bendinglight](https://in.bendinglight) | [bendinglight.github.io](https://bendinglight.github.io)

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## Summary

Software developer, data science enthusiast and lecturer with working experience in computer vision, time series data and mobile application development. Hands-on experience leveraging machine learning, deep learning models and cluster-computing to solve challenging business problems.

## Education

### BSc Computer Science (Honours) | University of Delhi | 2020

Minor in Mathematics (Calculus, Linear Algebra, Differential Equations, and Numerical Methods).  
Score - **8.16** CGPA

### Senior Secondary Education | Sant Nirankari Public School | 2017

Science Stream with Computer Science.  
Score - **88.75** %

### Secondary Education | Sant Nirankari Public School | 2015

Score - **8.80** CGPA

## Additional Education

- Advanced Data Science with *IBM* Specialization, **Coursera**.
- *IBM* Data Science professional certificate, **Coursera**.
- Geospatial Applications for Disaster Risk Management, Advance Module, **ISRO and UNOOSA**.
- Geospatial Applications for Disaster Risk Management, Basic Module, **ISRO and UNOOSA**.
- Flutter Development Bootcamp with Dart, **Udemy**.

## Experiences

### SOAR Developer | CyberWatch, Infosys Limited | Apr,2021 - Present

- Orchestrated and automated L1 L2 workflow by designing custom playbook on **Palo Alto XSOAR** platform.
- Integrated SIEM tools like IBM QRadar, Splunk and Threat Analytics tools like Alien Vault, ThreatStream.

### Window Server Administrator Trainee | Infosys Limited | Nov, 2020 - Mar,2021

- Designed and implemented windows server solution with **agile methodology** for business requirements.
- Maintain and monitor system performance, system security, backup, and provide technical assistance.
- OS update and software deployment using Microsoft SCCM.

### Mobile Application Developer | Freelance | Jun,2019 - Oct, 2020

- Developed **AI** enabled native **android** and cross platform **flutter** applications on **MVVM** architecture.
- Developed and integrated php APIs, firebase database, and firebase analytics with application.
- Led a team of 4 developers and to deal with clients for business.

## Projects

### Pneumonia Detection from chest X-Rays images

- **EDA** on the National Institute of Health chest x-ray dataset consists of 112,120 images of 30,805 patients.
- Cleaning and processing dataset by normalizing intensity, image augmentation, image resizing with **Keras**.
- Training and fine tuning of neural network, application model architecture used **VGG16** and **ResNet50**.
- Tried to implement the **CheXNet** research paper.

### Germany's Electric Market Case Study

- Analyze and Forecast Electricity Market in Germany using **Recurrent Neural Network**.
- Cleaning and processing large volumes of Germany's power generation and consumption data with **pySpark**.
- Produced and presented relevant reports and visualizations.

### Gharelu Chat

- Cross-Platform mobile chat application for helping expecting mothers to keep them connected in emergencies.
- Active user **location tracker**, SOS alert on **fall detection**, health checkup scheduler and medicine reminder.

## Certifications

- Microsoft Azure **AI-900** Certified.

## Achievements and Volunteer Experiences

- **Speaker** for Flutter Meetup event by Android Developer Club at **Google, Gurugram**.
- Active member of Indian Linux Group Delhi and Android Developer Club Delhi.
- **Rank 31** in DUET 2020, MS Computer Science.
- **Rank 50** in DUET 2020, Masters in Computer Applications.
- **President of Physics Society**, Sant Nirankari Public School, 2017.

## Skills

**Language:** Python, Java, Dart, C++, HTML, CSS, SQL, Git, Bash, Powershell.

**Database:** SQL, SQLite.

**Technologies:** Flutter, Android.

**Libraries:** Numpy, Pandas, Sklearn, Pydicom, PySpark, Keras, TensorFlow.

**Visualization:** Matplotlib, Seaborn, PowerBI.

**Cloud Platform:** IBM Cloud, Microsoft Azure.

**Server Administration:** Windows Server 2012 r2, Windows Server 2016 r2, SCCM.

**Development Environment :** MacOS, Linux, Windows.