# ANKUR ROY

Data Engineer

+91 9971340142 | ankurroy9971@gmail.com | in/ankur-roy | bendinglight.github.io

## Summary

Data engineer, 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

**Data Engineer | Data and Analytics, Infosys | Nov, 2021 - Present**
- Designed, integrated, automated ELT workflow with **Microsoft Azure** services for **Kraft Heinz** Company.
- Used Azure Data Factory for data ingestion from SFTP servers and designing pipelines.
- Used Azure **Databricks** with PySpark for data transforming and Azure Data Lake as a data lake storage.
- Used **Snowflake** for data warehousing and DBT for transforming data on warehouse.
- Used Azure DevOps for CI/CD and Azure AppInsights for monitoring.

**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 6 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 **VVG16** 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 tracke**r, SOS alert on **fall detection**, health checkup scheduler and medicine reminder.

## Certifications

- Microsoft Certified: Azure Data Scientist Associate, DP-100.
- Microsoft Certified: Azure Data Fundamentals, DP-900.
- Microsoft Certified: Azure AI Fundamentals, AI-900.

## 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, Azure SQL.
**Technologies**: Flutter, Android.
**Libraries And Package:** Numpy, Pandas, Sklearn, Pydicom, PySpark, Keras, TensorFlow, Interpret, azure-core.
**Visualization**: Matplotlib, Seaborn, PowerBI.
**Cloud Services**: Microsoft Azure.
**Server Administration**: Windows Server 2012 r2, Windows Server 2016 r2, SCCM.
**Development Environment** : MacOS, Linux, Windows.