

# ANKUR ROY

Microsoft Certified: Data Scientist Associate

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## 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 Limited | Nov, 2021 - Present

- Designed, integrated, automated ELT workflow with **Azure** services to manage logistics dataflow for **Kraft Heinz**
- Used **Azure Data Factory** orchestrating pipelines with **Azure Databricks**
- Used **Snowflake** as data warehouse and **DBT** for transforming data on warehouse
- Developed script to create SQL queries from SAP HANA table schema and reduced time consumption by 80%
- Used **Azure DevOps** for CI/CD and **JIRA** for progress tracking

### 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 dealt 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 Certified: [Azure Data Scientist Associate](#), DP-100.
- Microsoft Certified: Azure Data Fundamentals, DP-900.
- Microsoft Certified: Azure AI Fundamentals, AI-900.
- Microsoft Certified: Azure Fundamentals, AZ-900.

## Achievements and Volunteer Experiences

- **Winner** of **Azure-thon** organized by Infosys Limited.
- **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, SQL, PySpark, Scala, Java, Dart, C++, HTML, CSS, Git, Bash, Powershell.

**Database:** SQL, MongoDB, SQLite, Azure SQL.

**Technologies:** Spark, Databricks, Flutter, Android.

**Libraries And Package:** Numpy, Pandas, TensorFlow, Keras, Sklearn, PySpark, Pydicom, Interpret, azure-core.

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

**DevOps:** Docker, Kubernetes, CI/CD, Azure DevOps, JIRA, Confluence.

**Cloud Services:** Microsoft Azure.

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

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