# Aditya Kaushal

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## Education

**Chandigarh University** — **Mohali, Punjab, India**
*Bachelor of Engineering Computer Science (Hons. IBM Cloud Computing)* — *Aug'16 - Jul' 20*

- Overall GPA: 7.44/10
- Top 8% among all performers worldwide in the Google Hash code 2019 1st round. **-Participated**
- Selected for Elite batch of Top 40 students of Computer Science for scoring more than 650+ in AMCAT.
- Awarded 'IBM Mastery' for '**Cloud Application Developer**' and '**AI Analyst**' for scoring more than '70%'.

## Professional Experience

**Aerogram** — **IIT Delhi Campus**
*Data Engineer Intern* — *Jan'20 - Jun' 20*

- Built a web dashboard to predict PM2.5 values using algorithms like Prophet, S-ARI-MA, and EMA.
- Developed ETL Pipelines on Google Cloud to migrate telemetry feed from IoT-Devices to Google Cloud SQL.
- Integrated the pipelines with MQTT protocols using Google Pub/Sub & IoT core.
- Analysed PM 2.5 of E-BAM and IIT-D during and before the lock down to determine the seasonality and trends.
- **Technical Skills**: Python, SQL, Pandas, NumPy, SciPy, Google Cloud, HTML, CSS, JS, Flask, ETL, Tableau

**Hitachi (Railway System Business Division)** — **Bengaluru, Karnataka**
*Data Analyst Intern* — *Mar'19 - Apr'19*

- Built a solution for extracting the arrival & departure of Trains to compare NTES data with actual timings.
- Designed a solution to automate the processes of ETL using Python
- Converted the unstructured formats to Excel readable formats for data visualization through Pandas.
- Summarized the Data into visualization to compare the actual arrival and departure with NTES timings.
- **Technical Skills**: Python, ScraPy, Pandas, NumPy, Excel, Mat- plotlib, Sea-born

## Projects

- **Data Integration and ETL (Adventure Works Data Warehouse) (Microsoft Azure, ETL Pipelining, MS Server SQL, Databases)**: Accumulated and collected desired data from Data warehouses containing 50+ tables. Designed an ETL Pipeline for data transformation and modeling using Azure Data Factory. Utilized the Data lake Storage for staging and processing data. Also, handled many task such as joining, filtering, selecting, deriving columns and tables for extracting desired data from Adventure Works2019 Data warehouse using components like Azure Data Factory pipelines, data flows, copy data activities, and control flows. Tech: Azure SQL DB, Azure SQL Server, Azure Data Lake Gen 2 Storage, Azure Data Factory.(Aug '20)
- **AirSol (Web Development, Time Series, Forecasting)**: Built a Web Dashboard using Time series modeling to predict local mapped Particulate Matter 2.5 in the vicinity of IIT Delhi Campus using various forecasting algorithms like S-ARI-MA and Prophet. Tech: Python, Google Cloud, Google Firestore, Flask, HTML, CSS, Pygal, Pandas, NumPy, JS. (Mar '20)
- **Face2Gene (Desktop Application, Computer Vision, Python)**: Built a facial recognition app to recognize the user through facial features and displayed the user name on the identified Image. Utilised Support Vectors Machine, Principal Component Analysis, and K-Fold Cross Validation. Tech: Python, Open CV (May'18)
- **Reporting Solution (Power BI, Databases)**: Analysed and mapped various tables from the Adventure Works 2019 Data warehouse to carry out visualization of Fact-Tables. Utilized Dimension Table and Fact Table to collect and model data to extract the desired result. (Aug '20)
- **Range of Incubation periods for the Covid-19 in Humans (Python, Data Analytics)**: Processed 17+GB of Dataset consisting of 200,000+ scholarly articles provided by AI2, Georgetown, NIH & The White House to mine text related to incubation period of COVID-19. Utilised the Python script to parse JSON files to extract days and weeks of incubation and plotted a histogram for visual representation. Tech: Python (Mar'20)
- **Loan Prediction (Python, Data Analytics)**: Processed Loan Dataset to automate loan eligibility process. Analysed various loan granting factors like 'Credit Score', 'Dependencies', 'Education', 'Gender', 'Income'. Utilised various Python libraries like Sea born, pandas, Numpy and matplotlib to analyse various factors using numerous visualization to predict the loan eligibility. Tech: Python, SciPy (Mar'20)

## Skills Summary

- **Proficient**: Python, C++, JAVA, SQL, HTML, CSS
- **Intermediate**: Sci-kit, Flask, Android, OpenCV
- **Others**: Microsoft Azure, AWS, GCP, GIT, SQL, Firebase

## Interests

- **Guitars & Music**: Overall Winner and ranked 1st in Instrumental Fusion in Melange (school event) for playing Bass Guitar. Also Awarded the 'Excellence in Instrumental Music'.
- **Track and Field Events**: Won Merit and Medals for Athletics (100Mts, 4X100 Relays, Long Jumps, Inter-school 200Mts, and 100Mts)