

A keen analyst, utilizing advanced skills in SQL Coding, Data Science, and Project Implementation, aiming for roles such as Data Analyst, Data Engineer, or Data Scientist for evolving business solutions and fostering organizational growth.

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EDUCATION

- M.Sc. Data Science, Northumbria University, Newcastle Upon Tyne, U.K. Duration: Jan 2022 – Jun 2023 Grade: 4/4 GPA (top 1%)
- B.Sc. Physics (Honors), St. Stephen's College, University of Delhi, India, Duration 2018 - 2021 Grade: 9.12/10 CGPA (top 3%)

TECHNICAL SKILLS

Programming Languages	Python, R, PySpark
Databases	MySQL, Oracle DB, Mongo DB
Dashboarding Tools	PowerBI
Deployment	Heroku Cloud Platform, Streamlit Cloud, Git Version Control
Miscellaneous	Pandas, Numpy, Matplotlib, Plotly, Tensorflow, Excel, Natural Language Processing, Computer Vision, Sklearn

Luke Chugh

5-star Advance SQL Coder on HackerRank | Practicing LeetCode Problems

PROFILE SUMMARY

- Track record of accomplishing successful implementation of end-to-end projects in Data Science, encompassing the conversion to web apps and their further deployment on the cloud.
- Collaborates with Product Owners and cross-functional teams in a collaborative and agile environment.
- Leverages skills in designing rich data visualizations and interactive tools as well as solutions to communicate complex ideas to customers and company leaders.
- Comprehensive knowledge in Natural Language Processing, Computer Vision, Sklearn, and various data visualization tools for comprehensive data analysis.
- Proficient in developing and implementing Machine Learning models for predictive analytics, with a focus on optimizing business processes and enhancing decision-making capabilities through data-driven insights.

PROJECTS UNDERTAKEN DURING M.Sc.

Thesis: Addressing dataset scarcity & class imbalance in Alzheimer's using WGAN-GP [[Link](#)]

- Web scraped traffic data from traffic.england website and used R, descriptive statistics, and GGplot2 to determine optimal days and times for lorries to travel on the M1 Roadway based on number of incidents, unconfirmed roadworks, and congestion.
- Analyzed U.K. government's "Street Level Crime Dataset" (63.5M rows) using PySpark on Azure cloud and found that violent crimes are increasing (Time Series Forecasting), London has more firearms incidents per head than any other region in the UK (SQL), and firearms incidents are positively correlated with drug offenses (Stats) [[Link](#)].
- Designed, implemented and optimized database for a travel company using SQL and MongoDB.
- Implemented Fraud Detection using PL/SQL on Sales History Warehouse.

PROJECTS (Proof of Concept)

Furniture Recommender WebApp: [[GitHub Link](#)]

Brief Framework:

- The user can upload an image and this WebApp will recommend chairs, couches, beds and tables.
- ResNet-50 was implemented to extract features from each image in the dataset.
- These features were fed to KNN model which by brute-forcing the Euclidean distance between the image uploaded by the user and all the images in the dataset, returned the indexes of 5 nearest neighbors of the image as input by the user on the WebApp.
- Subsequently, the images in the dataset corresponding to these 5 indexes were shown as recommendations on the WebApp.

WhatsApp Chat Analyzer: [[WebApp Link](#)] [[GitHub Link](#)]

Brief Framework:

- This WebApp utilizes a series of data cleaning and data pre-processing pipelines to analyze the WhatsApp messages.
- It delivers insights about the trends in user activity and user behavior using interactive plotly charts.
- The App also performs sentiment analysis not only with respect to the WhatsApp group as a whole but also with respect to each person in that group.
- This WebApp supports both 12 hour and 24 hour clock formats as well as dd/mm/yyyy, mm/dd/yyyy and yyyy/mm/dd date formats, it was deployed on the Heroku cloud platform.