Pratyush Puri

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Profile Summary

A highly motivated and detail-oriented recent graduate with hands-on experience in data analysis, SQL, and Gen-ai learning through internships. Skilled in extracting insights from complex datasets to support business decisions.

Technical Skills

Languages: C, C++, Python

Databases: SQL, MongoDB

Cloud and Software: AWS, Hugging Face, Transformers, Langfuse

Other Skills: MS Excel, Data Analysis, GitHub, Machine Learning, GenAI

Experience

Cootz India **July 2024 – Present**

Data Engineer Intern *Gurugram, India*

Project Summary

Automated SQL Query Conversion Utility with Synthetic Data Generation (Cootz India) **July 2024 - Present**

Developing a tool to convert SQL queries across dialects using SQL Glot and OpenAI. Automating the process for efficient handling of multiple queries and integrating it with GitHub.

Roles And Responsibilities:

- Developing a software tool that automatically converts SQL queries between dialects, ensuring compatibility across various database systems.
- Leveraging OpenAI's capabilities, generating synthetic datasets to test and validate both original and converted SQL queries, ensuring accuracy and reliability.
- Using SQL Glot for semantic analysis and validation of SQL scripts, identifying and resolving potential errors or inconsistencies to maintain the integrity of converted queries.
- Implementing an automated process to continuously monitor a GitHub repository for new SQL queries, automatically converting them to the desired dialect upon upload.

Covid - 19 detection from X-ray using Deep Learning (Personal Project) **January 2024 - April 2024**

Created a deep learning model to detect COVID-19 in X-rays. Using Keras, built a sequential model with layers such as Dense, Convolutional, Flatten, Dropout, and Pooling.

Roles And Responsibilities:

- A large dataset of X-ray images, including COVID-19 cases, was gathered to train the model effectively.
- Preprocessed the images to enhance quality and consistency, applying techniques like resizing, normalization, and augmentation to increase dataset diversity.
- Designed a custom convolutional neural network (CNN) using Keras, consisting of convolutional, pooling, flattening, and dense layers.
- Trained the model on the preprocessed dataset using appropriate optimization techniques and evaluated its performance using metrics such as accuracy, precision, recall, and F1-score to assess its ability to detect COVID-19 in X-ray images accurately.

Certifications & Training

- Machine Learning (IIIT Allahabad) **July 2023 – Sept 2023**
- Data Science (Oasis Infobyte) **Sept 2023 – Oct 2023**
- Artificial Intelligence: Building Gen-Ai applications (Udemy) **Dec 2021 - Jan 2022**

Education

United Institute of Technology **Dec 2020 – July 2024**

Bachelor of Technology, Computer Science

Raj English School **Apr 2017 – May 2019**

Intermediate