Aayush Sharma

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Career Objective

An innovative computer science enthusiast, interested in developing Data Science and Machine Learning based technologies. Excited to explore, learn and work on emerging technologies that are revolutionizing the way we interact with the internet.

Skills

Languages	:	Python, SQL, C, HTML/CSS, JavaScript
Frameworks	:	Flask, MySql, BigQuery, Mage, Tensorflow
Technical Tools	:	Tableau, Power BI, Looker, Git, Jupyter Notebooks
Analytical Skills	:	Problem solving, Critical thinking, Data analysis, Research

Education

Pranveer Singh Institute of Technology — 7.66 CGPA
B.Tech in Computer Science and Engineering (Artificial Intelligence) — *2020 – Present*

Dr. V.S.E.C Shyam Nagar — 88%
Higher Secondary School (CBSE) — *2018 – 2019*

Projects

Uber Data Analytics ***[GCP VM(Compute Engine), GCP storage, Mage, BigQuery, Looker, Jupyter Notebook]***

- An interactive dashboard to measure and analyze Uber data.
- Used GCP storage to store raw data. Used GCP Virtual Machine as a compute engine to build Mage data processing pipeline to process and transform data.
- Used BigQuery to analyze the data using SQL and made an interactive dashboard using Looker Studio.

Stock Price Prediction using Machine Learning ***[Sklearn, Keras, Flask, HTML/CSS, DataSpell]***

- Build a website to predict the closing stock price of a company based on the opening stock price.
- The Machine Learning model uses advanced Recurrent Neural Network called Long Short Term Memory (LSTM) model to predict closing stock prices. The front-end is made using HTML/CSS and integrated using Flask.

Exploratory Data Analysis (EDA) ***[NumPy, Pandas, Seaborn, Matplotlib, Plotly, Jupyter notebook]***

- Performed EDA on Netflix and Amazon Prime Video data sets to discover patterns and relationships between their various features through Data Visualization using libraries like Matplotlib and Plotly along with a Tableau dashboard.
- Applied various Data Preparation and Cleaning techniques to handle null values and missing data.

Spotify Music Recommendation System ***[Sklearn, Spotify API, Pandas, Numpy]***

- Used Spotify API to fetch user's playlist and recommend songs based on user's taste.
- Used a hybrid ML model based on content based filtering and weighted popularity score to recommend songs.

Certifications

Machine Learning Specialization [**Coursera**]

- Built & trained supervised models for prediction & binary classification tasks (linear, logistic regression) using libraries like NumPy & scikit-learn.
- Built & trained neural networks with TensorFlow to perform multi-class classification. Built & used decision trees & tree ensemble methods using optimizations like Vectorization and XGBoost.
- Built recommender systems with a collaborative filtering approach & a content-based deep learning method & built a deep reinforcement learning model by using techniques like clustering and anomaly detection.

Overview of Space Science and Technology [**Indian Space Research Organisation (ISRO)**]

- Learnt about wide range of topics, including astronomy, planetary science, heliophysics, atmospheric science, microgravity related studies, and space technology.