**Mehtab Singh Sidhu**

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**Education**

**CT University, Ludhiana, India**  **2023 - 2027**

* Computer Science Engineering | CGPA: **9.4**

**GHG Academy, India** **2022 - 2023**

* *CBSE (Class XII), percentage: 81.4%*

**Skills**

**Programming Languages**: Python, SQL, JavaScript   
**Machine Learning**: Linear & Logistic Regression, Decision Trees, SVM, Clustering, Classification  
**Deep Learning**: TensorFlow, PyTorch (Basics)  
**Data Science & Analytics**: Pandas, NumPy, Matplotlib, Scikit-Learn  
**Databases**: MySQL, MongoDB  
**Tools & Frameworks**: Jupyter Notebook, Google Colab, Git, Flask, React, Tableau

**Projects**

**Movie-Mate ML – Movie Recommender System |** [**project link**](https://github.com/Mehtab23455/MovieMate-ML/blob/main/movie_recommender_system.ipynb)

* Built a hybrid movie recommender using collaborative filtering, content-based models, and Bag of Words for text feature extraction.
* Utilized NLP techniques (e.g., Bag of Words, TF-IDF) on movie metadata and user reviews to improve accuracy.
* Evaluated performance using RMSE, precision, and recall; designed for scalability and user engagement

**House247** - **Predicting House Prices using Regression |** [**project link**](file:///C:\Users\Asus\Documents\resumes\|%20https:\github.com\Mehtab23455\Rainfall-Predictor-using-Random-Forest-Classifier\tree\main)

* Built a Linear Regression model to predict house prices based on location, size, and amenities.
* Achieved 95% accuracy using feature engineering and hyperparameter tuning.
* Tools Used: Python, Pandas, Scikit-Learn, Matplotlib

**Rain Wizard – Rainfall Predictor Model |** [**project link**](|%20https:/github.com/Mehtab23455/Rainfall-Predictor-using-Random-Forest-Classifier/tree/main)

* Built a rainfall prediction model using the Random Forest algorithm with 96% accuracy.
* Processed and analyzed historical weather data using Python, Pandas, and Scikit-learn.
* Performed feature selection and tuning to enhance model performance.
* Designed to aid agriculture and disaster planning through reliable weather forecasting.

**Certifications & Licenses**

Data Science 101 – IBM

Machine Learning Course – Kaggle

**Hackathons and Events**

* TechVerse Hackathon Coordinator – Organized and mentored participants in AI/ML tracks.
* Participated in CodeCrafters Hackathon – Built an ML model for fraud detection.
* TechTitans – Engaged in various tech initiatives and development projects.