

# VISHESH PHUTELA

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## PROFESSIONAL EXPERIENCE

Teaching Assistant, Modern Application Development Project – I & II

**Indian Institute of Technology, Madras**

December 2023–Present

- Conduct level 1 Viva assessments for Modern Application Development Projects 1 and 2, evaluating student understanding and implementation of the given problem statements.
- Provide constructive feedback to guide student improvement in project outcomes and for the level 2 Vivas.
- Collaborate with instructors to ensure alignment between assessments and course objectives.

## PERSONAL PROJECTS

**Ticket TalesV2 – A Ticketing WebApp** ([Video](#), [GitHub](#))

March 2023–September 2023

- Developed Ticket Tales, a single-page web application, using **Vue.js for the frontend** and **Flask for the backend**, with features for booking and managing tickets online for various shows and theatres.
- Leveraged **Redis and Celery** for **background jobs** and used **SQLite3 as the database** for efficient data storage and retrieval.
- Utilized **Redis for caching** to improve system performance and speed, making the application responsive and suitable for a high volume of users.
- It was a curriculum project for **Modern Application Development II**, also received a **Best Project Award** for this project and scored 95/100. ([Certificate](#))

**Taxi Fare Prediction – ML Project** ([Notebook](#), [Kaggle](#))

September 2023–December 2023

- Developed a comprehensive machine learning project as part of a **Kaggle Competition**, focusing on taxi fare prediction, a **Regression problem**.
- Implemented end-to-end model development, including **data preprocessing**, **Exploratory data analysis (EDA)**, **feature engineering**, **model selection**, and **hyperparameter tuning**.
- Trained and evaluated **four regression models**, including **Linear Regression**, **KNN Regressor**, **Random Forest Regressor**, and **XGBoost Regressor**, achieving the highest **R2 score of 0.956** on the test dataset with XGBoost Regressor.
- It was a curriculum project for **Machine Learning Practice** and scored 100/100.

**HSWC Business Analysis – Business Data Management Project** ([Drive](#))

December 2022–April 2023

- Performed **Data Analysis** on 8 months of business data of Haryana State Warehousing Corp. (Govt. organisation) and found **2 major underlying problems**.
- Identified **underutilized and overutilized districts** during peak and off-peak seasons by means of Data Analysis and developed strategies to address capacity and distribution challenges.
- Gave **7 Data-Driven recommendations** to improve efficiency, reduce operating costs, and enhance profitability for HSWC.
- It was a curriculum project of **Business Data Management**, I undertook the project spanning three stages: Proposal, Mid-term submission, and Final submission, culminating in a Viva presentation.

## EDUCATION

**Indian Institute of Technology Madras, Chennai, India**

September 2021–2025

**B.S. in Data Science and its Applications** (GPA: 7.23/10.0)

**Ch. Devi Lal State Institute of Engineering and Technology, Sirsa, Haryana**

September 2020–2024

**B.Tech. in Computer Science and Engineering** (GPA: 8.45/10.0)

**Maharaja Agarsain Sr. Sec. School, Sirsa, Haryana, India**

March 2019–2020

**12<sup>th</sup> Grade in Science (Non-Medical)** (Percentage: 80/100)

## SKILLS & INTERESTS

Python (NumPy, Pandas, Scikit-learn, Flask), SQL(Postgres, MySQL, Sqlite3), Data Science(Data Engineering and Analytics, MLOps), Machine Learning(Supervised, Unsupervised, Recommendation Systems), Data Analytics, AWS, Git