# Gourav Katoch

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## Projects

**House Price Prediction**| *Python, Scikit-Learn, XGBoost*                                   **December  2024**
- Developed a **predictive model** to estimate house prices based on features like size, location, and amenities.
- Used **Feature Engineering** techniques to improve model performance.
- Implemented **XGBoost** and **Linear Regression**, achieving **92%** model accuracy.
- Created a **Flask API** for real-time predictions.

**Customer Churn Prediction**| *Python, Pandas, Scikit-Learn, Matplotlib*                   **January 2024**
- Built a **machine learning model** to predict customer churn for a telecom company.
- Cleaned and preprocessed **10,000+ customer records** using **Pandas & NumPy**.
- Trained models using **Logistic Regression, Decision Trees, and Random Forest.**
- Achieved **85% accuracy** in predicting customer retention rates.

**Real-Time Disaster Tweet Classification**| *Python, IBM Watson, Flask, Scikit-Learn*    **March 2023**
- Developed a **machine learning model** to classify tweets as **actual disasters or non-disasters**.
- Used **IBM Watson Natural Language Understanding (NLU)** for text analysis**.**
- Trained models using **Logistic Regression and Random Forest**, achieving **90% accuracy**.
- Deployed the model using **IBM Cloud AI services** with a Flask-based web UI.

## Certificates

**Business Intelligence**                                                                     **February 2025**
*IBM — https://courses.lpu.skillsnetwork.site/certificates/0df07d7078154b1585bc846192d37e6c*

**Big Data 101**                                                                              **February 2025**
*IBM — https://courses.lpu.skillsnetwork.site/certificates/460d9268b94c45609abe1597257fcfb0*

**Introduction to MongoDB (For Students)**                                                    **July 2024**
*MongoDB University — https://learn.mongodb.com/c/wf8Z5JC1TqWTuyDURB51mQ*

## Technical Skills

**Languages** C++, Python, JavaScript

**Technologies/Frameworks**: Power BI, Tableau, Hadoop, Snowflake, SQL,

**Skills**: Data Structures and Algorithms, Problem-Solving, Attention to Detail, Data Visualization, Interpersonal

**Data Engineering and Analytics**: ETL Processes, Data pipeline design, real time data streaming

## Education

**Lovely  Professional  University  Punjab**                                                  **2022 – 2026**
*Computer Science and Engineering — CGPA: 8.09*                                                *Jalandhar, Punjab*

**DHT Kisumu Senior Academy**                                                                 **2020 – 2022**
*Pearson International A 'Level — Percentage: 63.05%*                                           *Kisumu, Kenya*

**DHT Kisumu Senior Academy**                                                                 **2016 – 2020**
*Pearson International GCSE — Percentage: N/A*                                                  *Kisumu, Kenya*