

# Mohammad Ibrahim Hossain

Machine Learning Engineer | Data Scientist | MLOps Specialist

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Detail-oriented expert in **Data Science** and **Machine Learning** and **MLOps**, with extensive experience in **end-to-end model development, deployment, and optimization**. Proven record of delivering high-accuracy solutions—such as real estate price predictions at **95% accuracy**—using **Python, NLP, Docker, and AWS**. Specialized in **data-driven insights** using **sentiment analysis, recommendation engines, and automated ML pipelines** for **scalable AI solutions**.

## SKILL

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**Machine Learning** | Supervised & Unsupervised Learning, A/B Testing, Model Selection, Hyperparameter Tuning, Ensemble Methods, Natural Language Processing (NLP), Classification.

**Deep Learning** | Neural Networks, CNNs, RNNs, Transfer Learning, Model Optimization, **Tensorflow**.

**Data Science** | Data Cleaning, **data pipelines**, Feature Engineering, **Data Representation (SVG/JSON)**, EDA, Statistical Analysis, **Data Preprocessing**, Data Visualization, **Advanced Statistics**.

**MLOps** | CI/CD, Docker, Kubernetes, automated testing, **Version Control**, model monitoring, **AWS (EC2, S3, SageMaker)**.

**Tools & Libraries** | Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, Plotly, Git, DVC, MLflow

**Programming Languages** | Python (object-oriented programming), SQL, Flask.

**Soft Skills** | Time Management, Teamwork, Stakeholder Collaboration, Multitasking, Problem-Solving.

## Projects

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### Real Estate Model App (Python, Docker, AWS, CI/CD) | Code

Built an AI-powered real estate tool for **price prediction, data analysis, and apartment recommendations**. Utilized **Python, MLOps, Docker, Streamlit, AWS, Random Forest, CI/CD, DVC, and GitHub Actions** for deployment. Achieved **62 % to 95% accuracy**, helping users make **data-driven property investment decisions**

### Sentiment Analysis (TensorFlow, Scikit-Learn, NLP, MLOps)

Developed an **NLP model** to classify text sentiment (**positive, negative, neutral, suicidal**) using **Pandas, Scikit-learn, Logistic Regression, MLOps, TF-IDF, Streamlit, and GitHub Actions**. Achieved **more than 85% tracking accuracy** with deep sort and achieved **avg accuracy of 75%**

### Personal AI Chatbot

Developed and deployed a **chatbot** with dynamic, context-aware interactions and a user-friendly interface. Focused on **personalized responses** and seamless engagement. Technologies: **Python, NLP, Streamlit, Deep Learning, ML**

### Movie Recommendation System (Python, Collaborative Filtering, Docker)

Built a **recommendation system** using collaborative filtering to suggest films based on user preferences. Technologies: **Python, Pandas, NumPy, Scikit-learn, MLOps, Docker, Git Action, Streamlit**. Improved similarity score from **72% to 90%**. Deployed via **Streamlit for real-time recommendations**.

### YouTube Comment Analyzer (NLp, AWS, MLOps, Scientific Visualization) | Code

Developed an **NLP-based sentiment analysis tool** to analyze **YouTube comment trends**. Leveraged **AWS cloud services, ML models, and data visualization techniques**.

### CBC Report Checker (Medical Data Analysis, ML Deployment)

Developed a **medical web app** to analyze **CBC reports** and provide **health insights**. Handled **data preprocessing, feature engineering, and model deployment for accurate health analysis**.

# Certification

## CampusX DSMP 2.0 Certificate-

Demonstrated proficiency in Data Science, Machine Learning, and MLOps.

[View Certificate](#)

# WORK EXPERIENCE

## Mashover(Clothing Brand) – Data Science & Machine Learning Specialist

- Analyzed customer behavior to identify trends and develop targeted marketing strategies, increasing local and online sales from 68 % to 71%
- Optimized sales strategies using data science and machine learning, boosting revenue for Mashover, a clothing brand in Dhaka.
- Built predictive models to forecast demand and optimize inventory, reducing overstock and improving product availability.
- Deployed ML models to enhance sales processes, making them more adaptive and data-driven.

## Real Estate Price Prediction – AI & MLOps Deployment

- Developed machine learning models with structured data representation to predict real estate prices, achieving 62 % to 95% accuracy.
- Optimized model interpretability by implementing intuitive visualizations for price trends and demand forecasting.
- Automated end-to-end ML pipelines using Docker, MLOps frameworks, and AWS, ensuring seamless deployment.
- Integrated real-time data analysis for dynamic model adaptability to market trends.
- Deployed APIs via Flask and FastAPI, enabling scalable and efficient access.
- Implemented monitoring and logging with MLflow and CloudWatch, ensuring stability and performance tracking.
- Delivered actionable insights, empowering stakeholders with data-driven investment decisions.

# EDUCATION

## CampusX DSMP 2.0 | Data Science, ML MLOps

Gained expertise in Python, Machine Learning, MLOps, Model Deployment, CI/CD, Docker, and AWS.

Real-world projects: model deployment, data pipeline automation, statistical analysis

## Govt. Bangla College

(August 2023 - Present)

Relevant Coursework: Mathematics, Physics, Computer Science Fundamentals

Self-Led Projects:

- 1 . Built a regression model to predict exam scores using Python.
- 2 . Designed a dashboard to visualize scientific data with Matplotlib.

# Languages

English: Fluent

Bangla: Native

# Reference

Md Sahadad Hossain Parvez

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