



EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	National Institute of Technology, Patna	7.48/10	2028
Senior Secondary	St. Michael's High School	90.3%	2022
Secondary	St. Michael's High School	89.3%	2020

- **Project A:House Price Prediction using Machine Learning**

Nov 2024 – Dec 2024

Tools: Python, Scikit-learn, Pandas, NumPy

- Built an end-to-end regression pipeline on the California housing dataset using RandomForestRegressor, handling missing values, feature scaling, and categorical encoding.
 - Serialized the trained model and preprocessing pipeline to enable fast inference on new housing data without retraining.
 - Visualized feature importances and error distribution to understand key drivers of house prices and model behavior.
- **Project B:Programming Lecture Video RAG Pipeline**

2026

Tools: Python, Whisper (large-v2), Ollama (bge-m3), scikit-learn, Pandas/Joblib, FFmpeg

- Converted videos→MP3 (FFmpeg), transcribed Hindi CP lectures to timestamped JSON chunks (Whisper large-v2)
 - Generated bge-m3 embeddings for all chunks via Ollama API, saved scalable Pandas/joblib index.
 - Built cosine similarity retriever returning top-5 chunks by video/timestamp for LLM prompting.
 - CLI answers "which video has [solution]" with precise mins:sec guidance.

SKILLS

- **Programming Languages:** C++17, Python 3.11, JavaScript , SQL, Java
- **Technologies:**React/Next.js, Node/Express, MongoDB, PyTorch, scikit-learn, Whisper, Ollama (bge-m3), Tailwind CSS, REST APIs
- **Tools:**FFmpeg, Pandas/Joblib, Git/GitHub, VS Code, FFmpeg, LeetCode/Codeforces, Vercel

CERTIFICATIONS

- **Code With Harry, The Ultimate Job Ready Data Science Course**
- Feb 2026

ACHIEVEMENTS

- JEE Mains 99 percentile
- Codeforces rating 1000 plus (400+ problems solved incl. Take U Forward)
- Built ML RAG search engine for Programming lecture videos (Whisper + Ollama)