

# Reyan Alam

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## Education

**Indian Institute of Technology (IIT), Patna**

Aug 2018 – May 2022

B.Tech

**Educational Discourse**

Aug 2022– May 2024

Preparing for UPSC,CSE

## Projects

### ChatBot

[Source Code](#)

- Developed a Retrieval-Augmented Generation (RAG) chatbot that efficiently generates responses to user queries and is trained on a knowledge base.
- Cleaned, preprocessed, and converted data to vector embeddings for efficient similarity search.
- Stored and managed embeddings in Pinecone, enabling high-performance vector search and retrieval.
- Retrieved relevant data from Pinecone to provide context for OpenAI LLM, enhancing response accuracy and relevance.
- Tools Used: Python,langchain, pinecone, openai ,Streamlit,Pandas, and NumPy.

### Student Score Prediction Model

[Source Code](#)

- Developed a machine learning model trained on a dataset to predict student score based on various factors such as gender, ethnicity, parental education, etc.
- Created a web application using Streamlit that takes user input for various features and predicts student scores.
- Tools Used: Python,Streamlit, Scikit-learn models, Scikit-learn preprocessing, Scikit-learn model evaluations, Scikit-learn utilities, Pandas, and NumPy.

## Skills

**Programming Languages:** Python

**Libraries & Tools:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn,langchain,openai

**Machine Learning:** Supervised and Unsupervised Learning

**Natural Language Processing:** Text Preprocessing, Tokenization, Embeddings,Sentiment Analysis, Text Classification

**GenerativeAI:** Vectore Database Management such as Pinecone

**Data Analysis:** Exploratory Data Analysis (EDA), Data Cleaning, Feature Engineering

**Model Evaluation & Tuning:** Cross-Validation, Hyperparameter Tuning

**Data Visualization:** Data storytelling, Creating insights using Matplotlib, Seaborn, Plotly

**Version Control:** Git, GitHub

## Achievements

- Cleared UPSC Prelims 2023.
- Ranked among the **top 1%** out of **1,000,000** candidates in **JEE Advanced 2018**.
- Secured **AIR 723** in **WBJEE**, out of more than **100,000** candidates.
- Successfully cleared **JEE Mains** in **2017** and **2018**, as well as **COMEDK UG 2018**.