RAJARSHI ROY

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in rajarshi-roy-learner | 🔗 https://rajarshi12321.github.io/rajarshi_portfolio/

EDUCATION

B.Tech - CSE
Kalyani Government Engineering College, Kalyani
📅 08/2021 - 07/2025
8.9 cgpa
(upto 4th sem)

WORK EXPERIENCE

Data Science Intern 📅 Jan-Feb 2024
CodesOnBytes 📍 Remote

Web Development Intern 📅 Apr-Aug 2022
GDSC KGEC 📍 Remote

PERSONAL PROJECTS

AI-reasearch-assistant (Mar-Mar 2024)
→This is AI Research Assistant repository using Gen AI and **RAG** model. This **AI Research Assistant app** is powered by **Google Gemini**.
→ It helps in question answering about the provided research paper by uploading them through **Streamlit**, we save it in the Data folder and clean the document, index it by using **Llamma-Index** using **Gemini Embedding Model**.

Anidex (Aug-Nov 2023)
→Anidex is a **real-life pokedex** for knowing about animals on the spot by **scanning or clicking a picture of the animal.**
→Then the app will respond to which **possible animal** is it **with a few basic details** in both text on screen and as a **voice message** like any voice assistant.

My Sweet Home (Jul-Nov 2023)
→It **predicts** house prices and **recommends** similar housing properties from the database using content-based filtering.
→**House Price Prediction:** When predicting the **accuracy** of housing properties for **sale,** it is approximately **90%**, whereas for **rental** properties, it is about **70%.**
→**Property Recommendation:** Along with the house price predictions users will also get a list of **6 most similar properties** that match the given criteria and also show the **average percentage of cosine-similarity** for those 6 recommended properties..

Akshar-Website (Aug-Aug 2023)
→This is a website intended to support and promote our initiatives of **Aakshar**.
→I was responsible for building the backend server of this project using **expressjs** and **mongodb**.
→I have deployed this project on **vercel**.

TECHNICAL STACK

Data Science / Machine Learning / Deep Learning
Python, Data Visualisation, Supervised learning algos, Unsupervised Learning algos, ANN, CNN, NLP, EDA, LLM, Feature engineering, Feature selection & extraction etc.

Mathematics for ML & DL
Algebra, Probability, Statistics, Calculus, Matrices.

Python packages and Frameworks
Scikit-Learn, Tensorflow, Keras, NumPy, Pandas, SciPy, Beautiful Soup, Scrapy.

Web Devolopment
Html, CSS, Flask, Django, Javascript, figma, Streamlit.

Programming languages
Python, JavaScript, SQL, NoSQL, HTML, CSS.

Databases
Mysql, Mongodb, Postgresql, Pinecone, Faiss

MLops Tools
DVC, MLflow, ci/cd, github actions.

Cloud Deployment and containers
AWS ECR, AWS EC2, Vercel, Netlify, Git, Docker.

Gen AI Framework and Models
LlamaIndex, Langchain, Google Gemini, Hugging Face.

ACHIEVEMENTS

Winner of Smart India Hackathon 2022
Smart India Hackathon , Aug 2022

CERTIFICATIONS

Machine Learning Specializaton Course
Coursera , Mar 2023

Deep Learning Specialization Course
Coursera , Mar 2023

Google Data Analytics Specialization
Coursera , Jan 2022

Mathematics for Machine Learning
Coursera , Mar 2023