Utkarsh Raj

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Education

Indian Institute of Technology Dhanbad	Expected May 2026
Bachelor of Technology in Environmental Engineering (CGPA: 8.60/10.00)	*Dhanbad, Jharkhand*
Indian Institute of Technology Dhanbad	Expected May 2027
Dual Degree (M.Tech) in Computer Science Engineering	*Dhanbad, Jharkhand*

Projects

Movie Recommender System │ *Python,Numpy,Pandas,Scikit-Learn*
- Developed a movie recommender system utilizing collaborative filtering and content-based algorithms to analyze movie titles and suggest similar films. Leveraged Python and machine learning techniques to enhance accuracy and diversity of recommendations, optimizing user experience and engagement. .

Langchain Based Pdf Reader │ *Python,(NLP),Machine Learning,PDF Parsing,Text Summarization Techniques*
- Developed a language-chain model proficient in summarizing PDF content and answering related questions. Utilized advanced NLP techniques, machine learning algorithms, and PDF parsing to create an adaptable system. Achieved comprehensive understanding and retrieval of information, enhancing accessibility and utility of PDF documents for users.

AI-Driven Crop Disease Detection and Management System │ *Streamlit,Html,TensorFlow,Pillow,,CSS,Deep Learning*

- Our comprehensive agricultural solution offers farmers a one-stop platform integrating advanced technologies for optimal crop management. It features a DenseNet-121 model for precise crop disease prediction and severity assessment, coupled with a robust database of treatments and disease causes. Additionally, the solution includes soil type prediction to guide crop suitability and enhance productivity. This all-encompassing tool empowers farmers with actionable insights, treatments, and preventive measures, promoting efficient and sustainable farming practices.

Technical Skills

Languages: C,C++, Javascript ,Python
Technologies: HTML, CSS, React.js, Express.js, MongoDB, Git, Node.js, SQL, Power Bi, Fast API, Docker, Flask, Django
Concepts: Artificial Intelligence, Machine Learning, Neural Networks, API, Data Structure and Algorithms, Object Oriented Programming, Probability and Statistics, Operating System, Database and Management System, Computer Networking

Sports Programming

CodeChef: 4 star
Codeforces:Specialist

Achievements

- **Kshitij, IIT Kharagpur RoboWar** —Participated .
- **E-yantra Robotics Competition 2023-24** — IIT Bombay One of the top 50 teams.
- **Concetto Galactic Maze Maverick** — IIT(ISM) Dhanbad 3rd Prize
- **Concetto Electro-Design Battle**— IIT(ISM) Dhanbad 3rd Prize
- **Smart India Hackathon** Qualified Internal Hackathon X 2 (2023 2024)
- **Accenture Strategy Connect Season 3 -**Qualified
- **Google Hack4Change-** Qualified
- **WoodPecker Hackathon-**Qualified