

Akshay Chame

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EDUCATION

Bachelor of Technology in Computer Science

Vishwakarma Institute Of Technology (cgpa : 8.67)

11/2022 – present

Pune, Maharashtra

Diploma In Computer Engineering

Puranmal Lahoti Government Polytechnic (Per : 94.97)

08/2019 – 05/2022

Latur, Maharashtra

PROJECTS & EXPERIENCES

AI Enabled Water Well Prediction (Jal Shakti Ministry)

(python , flask , React Js , Data Science , KNN , K-Means ,)

- Created a user-friendly web and app system using **Python, Flask**, and frontend to provide AI-driven insights on water well feasibility and groundwater characteristics based on **CGWB data**.
- Implemented Data Science techniques like **KNN** and **K-Means** clustering for predictive analysis and personalized recommendations, integrating user feedback for accuracy.
- Aimed to improve water management by delivering actionable insights on well depth, discharge rates, and drilling techniques through an intuitive interface.

AI-Powered Resume Matching and Skills Analysis System (Codewits Solutions Pvt. Ltd.)

(Python, Streamlit, NLTK, Gensim, Doc2Vec, BERT, PyPDF2, PDF handling, natural language processing ,NLP)

- Developed a Python-based Resume Matching Tool using **Finetuned BERT embeddings**, improving job match accuracy by 15%. Implemented a user-friendly interface with **Streamlit** for interactive resume uploads and skill visualizations.
- Integrated Streamlit for a user-friendly web interface, enabling PDF uploads, sorting results by similarity scores, CGPA, and skill proficiency, and visualizing skill distributions with **Matplotlib** and **Seaborn**.

Pdf based Question Answering System using LLM and Langchain

(Streamlit, Gradio, Python, Langchain, RAG, LLM, LLAMA, Mistral, Zephyr, Transformers, gemini)

- Developed a PDF-based question-answering tool using **Langchain** and advanced transformer models (Gemini, Mistral) to provide accurate responses from uploaded PDFs.
- Integrated a user-friendly interface with Streamlit and Gradio for efficient query handling.

Deepfake detection for videos using neural network

(LSTM, ResNext CNN, PyTorch, CUDA GPU acceleration, Django)

- Built a real-time deepfake detection system using LSTM and ResNext CNN models, achieving 30% faster detection with CUDA GPU acceleration.
- Integrated the system into a Django web application for user-uploaded video verification.

Location Tracker using A9g board for dementia patient

- Developed a GPS-based location tracker with SOS and GSM communication using the A9G board for dementia patient safety.

Controlling Electrical Appliances Using IOT and AR App(Android/ Ios)

- Developed an AR and IoT-based app for touchless appliance control with a user-friendly interface for easy monitoring, enhancing safety during COVID-19.

Tourism Promoting Website using Three.js

(Three.js, HTML5, CSS3, JS, WebGL, JSON)

- Created a captivating tourism website using Three.js, offering interactive 3D virtual tours and stunning visuals to promote popular tourist destinations.

PicConnect - Empowering Visual Connections with Advanced Social Media Features

(ReactJS, Google Authentication, React Router, React Context or Redux, CSS, Image search and filtering techniques, Sanity.io for backend data storage and retrieval)

- Experience the best image sharing social media app with Google Authentication, post management, like/comment functionality, powerful image search, and more, built using ReactJS.

ACHIEVEMENTS AND CERTIFICATIONS

- **Winner of Smart India Hackathon 2023** 'AI Enabled Water Well Prediction' 🏆 Project (Led the winning team)
- **Got Bronze medal** at National Level Foundation AI - VILT 🏆 From NASSCOM.
- **Oracle Cloud Infrastructure Gen AI Certified 2024** 🏆
- Ai based **industrial project** (Resume Shortlisting using AI)for **codewits Solutions Pvt. Ltd.** 🏆
- **IBM Data Science Professional Certified**
- **Microsoft Power BI Data Analyst**

SKILLS




Technical Skills

Programming Languages: Python, Java, C/C++
Software Development & Frameworks: DevOps practices (CI/CD), RESTful APIs, Django, Flask, Streamlit
Cloud and DevOps Technologies: Basic knowledge of AWS, Azure, GCP, Docker
Version Control: Git, GitHub
Machine Learning & AI: NLP (BERT, LSTM), K-Means, KNN, PyTorch, LangChain
Databases: SQL, MongoDB, Graph, Vector DB

EXTRA CURRICULAR ACTIVITIES

Springer Nature Group , Microsoft Learn Student Club , Game Dev + Club	02/2024 – present
Microsoft Learn Student Club (Coordinator in IOT)	04/2023 – present
Game Dev + Club (Game Developer (unity 3D))	04/2023 – present

PUBLICATIONS

Tourism Promotion Website Using Three.js <i>Recent Trends In Programming Languages</i>	09/2023
A Hybrid approach for Deepfake Detection using CNN-RNN  <i>IEEE</i>	30/09/2024
A9G-based Dementia GPS Tracker  <i>International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)</i>	26/10/2023
Controlling Electrical Appliances Using IoT and AR  <i>International Research Journal of Engineering and Technology IRJET</i>	04/2022