

ATHARVA NARKHEDE

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Education

Indian Institute of Information Technology, Allahabad.

2023 - present

B.Tech in Information Technology

Grade: 8.93 (till 4th sem)

Higher Secondary Certificate - Class XII

2021 - 2023

Matoshri Junior College , Nashik , Maharashtra

Percentage: 90.33%

Secondary School Certificate - Class X

2021

St. Lawrence High School , Nashik , Maharashtra

Percentage : 97.20%

Projects

#1. LawyerUp : AI-Powered Legal Assistant

Tech-Stack: ReactJs, Flask, Firebase, Groq LLM, Gemini API, Pinecone, LangChain

[Live Link](#) | [Source Code](#)

- Implemented a Retrieval-Augmented Generation (RAG) pipeline using LangChain, HuggingFace MiniLM embeddings, and Pinecone for semantic legal search.
- Integrated Gemini API and Groq-hosted LLaMA-3 for fast, context-aware legal responses with real-time Flask APIs.
- Built Firebase Authentication and Firestore integration for secure, real-time user data handling.

#2. Spinola : Multi-Class Spine X-ray Classification

Tech-Stack: Python, TensorFlow, OpenCV, Flask, HTML/CSS

[Source Code](#)

- Developed an attention-augmented CNN to classify spine X-rays into **Normal**, **Scoliosis**, and **Spondylolisthesis** with 94% accuracy.
- Benchmarked Xception (94%), InceptionV3 (97%), and DenseNet121 (77%) models on 338+ labeled images.
- Applied data augmentation, rescaling, and oversampling to mitigate class imbalance and enhance generalization.

#3. CareCast : AI-Driven Medical Diagnostic Platform

Tech-Stack: HTML, CSS, Django, SQLite3, Python

[Source Code](#)

- Developed a Django-based diagnostic platform to predict PCOS (90%), Obesity (96%), and Mental Disorders (92%) using Logistic Regression and Random Forest models.
- Integrated user authentication, appointment booking, and auto-generated PDF health reports for seamless patient interaction.
- Built a responsive UI using Django templates, HTML/CSS, Bootstrap, and handled model inference with Joblib.
- Utilized Django ORM for backend logic and SQLite3 for efficient local database management.

Technical Skills

CourseWork: DSA (9 GPA), OS (9 GPA), OOPS (10 GPA), CN (10 GPA) , DBMS (10 GPA)

Languages: C, C++, Python, Java(Basics) , JavaScript , SQL

Skills: NLP, Deep Learning, CNN, Machine Learning , Generative AI

FrameWorks/Libraries/Databases: Django, TensorFlow, Keras ScikitLearn, BeautifulSoup, OpenCV, MySQL, OracleDB , Flask , Langchain , NodeJs

Achievements

- Earned selection among the **Top 100 out of 5000+ applicants** for the prestigious **Salesforce Tech Accelerator Program 2025**, based on demonstrated innovation, technical proficiency, and impact-driven project work.
- Advanced to **Semi-Finals in Flipkart Grid 7.0 (2025)** by solving complex algorithmic challenges and showcasing data-driven solutions.
- Clinched **Rank 5** in a competitive ML contest hosted by IIITA's AIML Wing on **Kaggle**, showcasing advanced data analysis and model optimization skills.
- Achieved a **99.778 percentile** in **JEE Main 2023** with an **AIR 2642** among **11 lakh candidates**, and ranked **AIR 6184** in **JEE Advanced 2023** among **2.5 lakh** qualified candidates.
- Solved **600+** coding problems across **LeetCode**, **Codeforces** (1412 - Specialist), and **CodeChef** (1861 - 4).
- Led **AI/ML** initiatives under **GeekHaven IIITA**, contributing to projects and organizing GeekCamp'25 and **OpenCode ML Track**, engaging **300+** students in hands-on **machine learning** activities.