

ADITYA KUMAR ARYA

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Education

Indian Institute of Information Technology, Una

Bachelors of Technology in Information Technology

Nov 2022 – June 2026

CGPA: 7.04

Technical Skills

Languages: C/C++, JavaScript (for MERN stack), Python, PostgreSQL, Kotlin.

Developer Tools: VS Code

Technologies/Frameworks: Web Development, Machine Learning, ReactJS, NodeJS, ExpressJS, Bootstrap, Tailwind CSS, SQL, Data Structures and Algorithms (DSA), Git, GitHub, Figma, PowerBI, Natural Language Processing.

Projects

Job Genie AI | Next.js, React.js, Drizzle, SQL, Gemini

Nov 2024 - Jan 2025

- Implemented real-time speech recognition to provide instant feedback after interview responses has been recorded.
- Designed and implemented an **intuitive UI** using React.js and Next.js for **seamless user interaction**.
- Integrated **Drizzle ORM** for efficient database management and **SQL** for robust data handling.
- Utilized **Gemini** for advanced conversational **AI** capabilities and personalized interview experiences.

Bengaluru House Price Predictor | Machine Learning, Python, Javascript, Pycharm, Jupyter Notebook

Jan 2025

- Developed a machine learning model to predict house prices in Bengaluru based on area, BHK, bathroom size, and square footage using Python and **Jupyter Notebook**.
- Implemented predictive algorithms using **scikit-learn** to build a LinerarRegression model that estimates house prices with **84.6%** accuracy.
- Developed the backend in Python using **PyCharm**, leveraging libraries such as **Pandas**, **NumPy**, and scikit-learn for data processing and modeling.
- Integrated real-time predictions by connecting the frontend to the backend through APIs, enabling seamless communication between the user interface and the model.

Sentiment Analyser | Machine Learning, Flask, Pycharm, Jupyter Notebook, Python

Jan 2025

- Developed a **Sentiment Analysis** model using a dataset with neutral, positive, and negative sentiments, trained with the LinearRegressionCV algorithm for sentiment prediction.
- **Preprocessed the text data** by cleaning and transforming raw text, including handling emojis, stopwords, and stemming, to improve the model's accuracy.
- **Implemented the backend** in Python using PyCharm, utilizing libraries like scikit-learn for model training, and Flask for integrating the model with a web interface.
- **Created a user-friendly HTML frontend** to collect user input and display sentiment prediction results interactively.

ACHIEVEMENTS AND EXTRA CURRICULAR

- Achieved a peak rating of **1630 (3-star)** on [CodeChef](#).
- Solved over 800 problems on [Codechef](#) and [Leetcode](#).
- Serving as **Social Media and Content Head**, Sargam Club, IIIT Una.
- Positioned as **2nd best performer** in Raag Samarpan, Mridang 2023 (Cultural Fest of IIIT Una).
- Positioned as **3rd** in Battle of Bands, Mridang 2024 (Cultural Fest of IIIT Una).
- Positioned as **2nd** in Basketball, Yalgaar 2023 (Sports Fest of IIIT Una).

KEY COURSES TAKEN

- **Relevant Subjects:** Bio Tech Engineering, Engineering Mathematics, Probability, Database Management System, Computer Organization, Computer Networks, Operating Systems, OOPs, Automata and Formal Language, Data Structures and Algorithms, Discrete Structures, Digital Electronics, Relational Database Management System, Software Engineering, RDBMS.
- **Mathematics:** Linear Algebra, Basic Calculus, Discrete Mathematics, Probability & Random Processes.