ALGONIVE

"EMPOWERING INTELLIGENCE THROUGH ELEGANT ALGORITHMS."

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About Us

At Algonive, we are committed to providing students with real-world experience that equips them for success in the tech industry. Our internship program emphasizes hands-on learning, allowing students to work on live projects and develop practical skills under the guidance of experienced mentors. This immersive approach enables them to effectively apply their knowledge to real-world challenges.

Our team of industry experts is passionate about supporting students in their professional development. At Algonive, we foster a supportive and innovative environment that encourages continuous learning and personal growth, empowering students to confidently step into their future careers.

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Instructions

- Kindly announce your internship status on LinkedIn by mentioning **@Algonive**.
- Ensure the timely completion of all assigned projects within the stipulated deadlines.
- Upload your complete source code to GitHub by creating a repository titled: **Algonive_Project_Name**.
- Upon project completion, share an update on LinkedIn that includes a video explanation of your work along with the link to the corresponding GitHub repository.
- Weekly tasks will be assigned and must be completed within the given timeframe. Submission is to be made through the official submission form.
- **For each domain, two tasks will be provided. You are required to complete atleast one task relevant to your selected domain.**

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Machine Learning

Explore the exciting world of artificial intelligence and data science. This program is designed to develop your skills through hands-on projects, expert mentorship, and exposure to real-world applications.

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TASK - 1

MOVIE RECOMMENDATION SYSTEM

- Develop a Movie Recommendation System that suggests films based on user preferences, viewing history, and ratings. This project applies collaborative filtering and content-based filtering to generate personalized recommendations.
- Key Features:
  - User-Based Recommendations: Suggest movies based on similar user preferences.
  - Content-Based Filtering: Recommend films with similar genres, actors, or directors.
  - Ratings & Reviews Analysis: Use sentiment analysis to refine recommendations.
  - Dataset Integration: Utilize movie datasets for training and testing.
- You can source relevant movie datasets from:
  - Kaggle (https://www.kaggle.com) – Search for "MovieLens Dataset“
  - IMDb API (https://www.imdb.com) – Fetch movie details and ratings
  - TMDb API (https://www.themoviedb.org) – Access movie metadata

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TASK – 2

DEFECT DETECTION IN MANUFACTURING USING AI

- Develop an AI-powered system that detects defects in manufacturing products using computer vision and machine learning. This project is widely used in industries like automobile, electronics, and pharmaceuticals to ensure quality control.
- Key Features:
  - Automated Defect Identification: Analyze product images to detect flaws.
  - Real-Time Processing: Use AI models to inspect items on production lines.
  - Classification of Defects: Categorize defects based on severity and type.
  - Data Logging & Reporting: Maintain records of detected defects for analysis.
- You can source relevant movie datasets from:
  - Kaggle (https://www.kaggle.com) – Search for "Manufacturing Defect Detection Dataset“
  - Google Dataset Search (https://datasetsearch.research.google.com) – Find industry-specific datasets

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SUBMISSION DETAILS

A SUBMISSION FORM will be shared later. Till then please continue your task

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Contact Us

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