



# OutriX Internship Program

**AI/ML**

**Learn by Building Grow by Solving**

# BENEFITS OF INTERNSHIP



## INTERNSHIP CERTIFICATE



## PLACEMENT SUPPORT



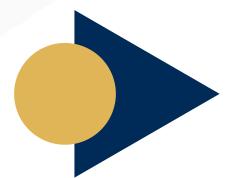
## NETWORK OPPORTUNITY

# CONTENT

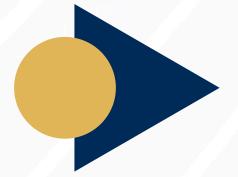
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- 3. Submission Guidelines**
- 4. Internship Task List**



# ABOUT US



OutriX is an EdTech & IT company offering practical internship experiences to help students gain hands-on skills in trending technologies.



We provide internship opportunities in: Data Science, Data Analytics, Machine Learning, Artificial Intelligence, Web Development, UI/UX Design, AI/ML, Cyber Security, Business Analytics, Cloud Computing, Java Development, Python Development, App Development

# INSTRUCTIONS FOR INTERNS

- Update your LinkedIn profile with your achievements, including the offer letter and completion certificate. Mention and tag **@OutriX** in your posts.
- Use hashtags like **#OutriXJourney**, **#OutriXExperience**, and **#FutureWithOutriX** to showcase your progress and experiences.
- Share your project completion updates on LinkedIn, accompanied by a video explanation and the GitHub project repository link.
- You will be provided with four tasks. Select and complete any three tasks within your domain to fulfill the internship requirements.
- Submit your completed tasks via the OutriX submission form. Ensure all tasks are submitted within the allocated 15-day period.

# SUBMISSION GUIDELINES

- Create a professional video showcasing your internship projects and achievements.
- Host the video on LinkedIn to provide proof of your work and establish credibility among your peers. Consider tagging OutriX in your posts to ensure they are notified of your work using hashtags like **#OutriXAchievements** and **#OutriXProjects**.
- **A SUBMISSION FORM** will be shared later. Till then, please continue your tasks and maintain a separate file for each level.
- When posting the video on LinkedIn, include engaging content that highlights your contributions and skills. Tailor the post to your specific internship domain to maximize impact and visibility.

# PLEASE NOTE:

For the AI/ML internship, you will need to  
complete at least 3 tasks for successful  
COMPLETION OF THE INTERNSHIP.

# TASK 1

## TITANIC SURVIVAL PREDICTION

**BUILD A MACHINE LEARNING MODEL TO PREDICT PASSENGER SURVIVAL ON TITANIC  
USING DEMOGRAPHIC AND TRAVEL DATA.**

**Goal:** Preprocess data, handle missing values, train classification models (Logistic Regression, Decision Trees), and evaluate accuracy.

**Tools Used:** Python, Pandas, scikit-learn, Jupyter Notebook

**Note:** Please upload a video demo of your application on **LinkedIn** and submit the **URL**.

# TASK 2

## HOUSE PRICE PREDICTION

**DEVELOP A REGRESSION MODEL TO PREDICT HOUSE PRICES BASED ON FEATURES LIKE SIZE, LOCATION, AND NUMBER OF ROOMS.**

**Goal:** Clean data, perform feature engineering, train regression algorithms (Linear Regression, Random Forest), and evaluate.

**Tools Used:** Python, Pandas, scikit-learn, Matplotlib/Seaborn

**Note:** Please upload a video demo of your application on **LinkedIn** and submit the **URL**.

# TASK 3

## CUSTOMER CHURN PREDICTION

**BUILD A CLASSIFICATION MODEL TO IDENTIFY CUSTOMERS LIKELY  
TO CHURN FROM A TELECOM COMPANY.**

**Goal:** Analyze dataset, select important features, train models (Logistic Regression, XGBoost), and optimize performance.

**Tools Used:** Python, scikit-learn, XGBoost, Pandas

**Note:** Please upload a video demo of your application on **LinkedIn** and submit the **URL**.

# TASK 4

## IMAGE CLASSIFICATION USING CNN

**CREATE A CONVOLUTIONAL NEURAL NETWORK MODEL TO CLASSIFY IMAGES FROM CIFAR-10 OR MNIST DATASET.**

**Goal:** Build, train, and test CNN architectures to classify images with good accuracy.

**Tools Used:** Python, TensorFlow/Keras, NumPy, Matplotlib

**Note:** Please upload a video demo of your application on **LinkedIn** and submit the **URL**.

# TASK 5

## TEXT SENTIMENT ANALYSIS

**BUILD AN NLP PIPELINE TO CLASSIFY TEXT REVIEWS OR TWEETS AS POSITIVE, NEGATIVE, OR NEUTRAL.**

**Goal:** Preprocess text, apply vectorization (TF-IDF), train classifiers (Naive Bayes, Logistic Regression), and evaluate.

**Tools Used:** Python, NLTK/spaCy, scikit-learn, Pandas

**Note:** Please upload a video demo of your application on **LinkedIn** and submit the **URL**.

# ASK US FOR HELP!

- **THE PURPOSE OF THIS INTERNSHIP IS TO LEARN AND GROW**
- We have no desire to dictate to you. It is entirely up to you whether you seek guidance or not.
- The given tasks may seem very easy or very difficult. We expect you to approach the tasks with professional diligence and give them the attention they deserve.

Contact your team leader here: [techoutrix@gmail.com](mailto:techoutrix@gmail.com)