MACHINE LEARNING INTERNSHIP PROGRAM

level I

SkillNova

www.skillnovatech.in

WELCOME TO OUR INTERNSHIP PROGRAM

- Kickstart Your Machine Learning Career
- Gain hands-on experience & build real-world projects
- Earn a valuable internship certificate

ABOUT US

SKILLNOVA

is a vibrant and diverse community that brings together individuals with similar objectives and ultimate goals. Our main focus is on creating opportunities that span various areas, including leadership development, learning, student engagement, and fostering shared interests.

We believe in the power of leadership and its ability to drive positive change. That's why we provide platforms and resources for our community members to develop their leadership skills. Through mentorship programs, workshops, and collaborative projects, we empower individuals to take on leadership roles and make a difference in their respective fields.

INSTRUCTIONS

UPDATE YOUR LINKEDIN PROFILES
FOR A WEB DEVELOPMENT INTERNSHIP, YOU WILL NEED TO COMPLETE ANY THREE PROJECTS AT YOUR CONVENIENCE FOR SUCCESSFUL COMPLETION OF THE INTERNSHIP.

MAINTAIN A SEPARATE GITHUB REPOSITORY (NAME SKILLNOVA FOR ALL THE TASKS AND SHARE THE LINK OF THE GITHUB REPO IN THE TASK SUBMISSION FORM . (IT WILL BE GIVEN LATER THROUGH EMAIL).

YOU CAN REFER TO ONLINE RESOURCES SUCH AS GOOGLE SEARCH AND READ TUTORIALS.

SUBMISSION

A TASK SUBMISSION FORM will be shared later through email.
Till then please continue your task.
A video need to be created to showcase your work, demo of your effort.

The video can be hosted on LinkedIn for proof of your work and build credibility among your peers.
You can tag SkillNova in such posts.

Please add #SkillNova in each of your task video postings on LinkedIn, Additionally, you can also add hashtags such as #internship #datascience. for more reach and visibility.

INTERNSHIP STRUCTURE

- Duration: 4 Weeks
- Mode: Online, Self-Paced
- Components: Weekly MCQs + Final Project
- Assessment: Complete all assignments & submit the projects

WEEKLY ASSIGNMENTS SCHEDULE

- Week 1: Python Basics, Data Preprocessing.
- Week 2: Supervised Learning (Regression, Classification).
- Week 3: Unsupervised Learning (Clustering).
- Week 4: Model Deployment.

WEEKLY PROJECTS SCHEDULE

- Week 1: House Price Prediction.
- Week 2: Customer Segmentation.
- Week 3: Spam Detection.
- Week 4: Image Classification.

FINAL PROJECT SUBMISSION

- Choose three project from the given options
- Implement concepts learned during the internship
- Submit the project before the deadline

PROJECT 1: HOUSE PRICE PREDICTION

Tools:

- Programming Language: Python.
- Libraries: Pandas, Scikit-learn, Matplotlib.
- IDE: Jupyter Notebook, VS Code.

Materials:

1. Tutorials:
    - Linear Regression with Scikit-learn
    - House Price Prediction Tutorial
2. Tasks:
    - Perform EDA on the dataset.
    - Train a regression model to predict house prices.

Bonus Feature:

- Deploy the model using Flask.

PROJECT 2: CUSTOMER SEGMENTATION

Tools:

- Programming Language: Python.
- Libraries: Pandas, Scikit-learn, Matplotlib.
- IDE: Jupyter Notebook, VS Code.

Materials:

1. Tutorials:
    - K-Means Clustering Tutorial
    - Customer Segmentation Tutorial
2. Tasks:
    - Perform clustering using K-Means.
    - Visualize customer segments.

Bonus Feature:

- Add a customer profiling report.

PROJECT 3: SPAM DETECTION

Tools:

- Programming Language: Python.
- Libraries: NLTK, Scikit-learn, Pandas.
- IDE: Jupyter Notebook, VS Code.

Materials:

1. Tutorials:
    - Spam Detection with Python
    - NLTK Tutorial
2. Tasks:
    - Train a model to classify emails as spam or not spam.
    - Use a dataset like the SMS Spam Collection.

Bonus Feature:

- Deploy the model using Flask.

PROJECT 4: IMAGE CLASSIFICATION

Tools:

- Programming Language: Python.
- Libraries: TensorFlow, Keras, OpenCV.
- IDE: Jupyter Notebook, VS Code.

Materials:

1. Tutorials:
    - Image Classification with TensorFlow
    - OpenCV Tutorial
2. Tasks:
    - Train a model to classify images (e.g., cats vs. dogs).
    - Use a pre-trained model like MobileNet.

Bonus Feature:

- Deploy the model using Flask.

CERTIFICATE & COMPLETION

- Complete all assignments & submit your final project.
- Receive your internship certificate.
- Enhance your resume & boost your career.

CONTACT & SUPPORT

- Email: contact.skillnova@gmail.com
- Website: skillnovatech.in
- Follow us on Social Media