

INTERNSHIP REPORT

*Submitted to the University of Kerala in partial fulfillment of the
requirement for the Award of the Degree of*

FYUGP - DEPARTMENT OF COMPUTER APPLICATIONS

Course Code: UK4INTCAP200

Submitted by

Sandra A : 792153527615



**DEPARTMENT OF COMPUTER APPLICATIONS
DON BOSCO COLLEGE, KOTTIYAM**



2024 - 2028



DON BOSCO COLLEGE, KOTTIYAM

(Affiliated to the University of Kerala)

CERTIFICATE

This is to certify that **Ms. SANDRA .A** , student of **FYUGP-Computer Applications, Semester IV**, Don Bosco College, Kottiyam, has successfully completed an **Internship Programme** at **AgenticX Knowledge Solutions, Kollam**, during the **Summer Vacation**, from **10 April 2026 to 27 April 2026**.

During the Internship period, the student gained practical exposure to the functioning of the organisation and had the opportunity to apply and enhance the knowledge and skills acquired through the academic programme.

The student has successfully completed the internship as part of the academic requirements of the **FYUGP Computer Applications**.

Date :

Place :

Mrs. Anju G. Nair
Internship Supervisor /Mentor
Assistant Professor

Mr. Nitheesh Krishnan R
Head of the Department



AgenticX Knowledge Solutions

Raj Plaza, Town Limit, Kollam, Kerala

www.agenticx.co.in

anju.muraleedharan@agenticx.co.in , +91 94965 52094

AKS/INS/2026/022

Date: 02 May 2026

TO WHOM IT MAY CONCERN

This is to certify that **Ms. Sandra A [3051]**, BCA student, Don Bosco College, Umayanalloor P O, Kottiyam, Kollam Kerala, has successfully completed the one month "INTERNSHIP" in "AI - ML" and a project completed on **Movie prediction system** in AgenticX Knowledge Solutions LLP, Kollam, Kerala from 10/04/2026 to 28/04/2026.

She worked on the below project under the supervision of **Mr. Rajesh, Mr. Muhammad Fazil V K, and Aravind S Babu** During the internship, she has gained several learnings such as problem solving, Group discussion, presentation skill etc. and developed considerable competencies.

Internship Details:

Organization: AgenticX Knowledge Solutions LLP

Mode: Offline

Duration & Hours: 4 Weeks or 90+ Hours

Domain(s): AI - ML

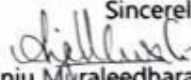
Topics: Python, Machine learning

Start Date: 10/04/2026

End Date: 28/04/2026

Her conduct and character during the period with us were **Excellent**.

Wishing you all the best for your future endeavors.

Sincerely,

Anju Muraleedharan
Managing Partner



WEEKLY SUMMARY REPORT - WEEK 1

Duration Covered: 7 Hours

1. Major Activities Undertaken

Attended the orientation session and introduction classifying on artificial intelligence (AI) and machine learning (ML) methodologies

2. Key Learning Outcomes

Gained a high-level conceptual framework of how AI and ML models function and their real world application

3. Academic Concepts Applied

Fundamental concepts of computer Science and python programming

4. Skills Developed

Technical: Python coding basics and fundamental AI/ ML concepts

Communication: Presenting questions and interacting during orientations

Teamwork: Group discussion during introductory briefing

Problem-Solving: learning new technologies and spreading different ML approaches

5. Challenges Faced

Grasping a wide array of new technologies and differentiating between various core ML approaches in a short duration

6. Solution / strategies Adopted

Took extensive notes during the introduction session and asked clarifying question regarding industry scope of AI ML

7. Hours Completed This Week: 7 hours

 Muhammad Gazi Name and signature of mentor	 Nitheesh Krishnan Name and signature of faculty mentor	 Anju G. Nair Name and signature of internship supervisor
--	---	--

WEEKLY SUMMARY REPORT - WEEK 2

Duration Covered: 35 Hours

1. Major Activities Undertaken

Implemented basic python programming explored core data handling techniques, gathered dataset and executed data preprocessing, conducted initial ML training, prepared PPT and presented week end presentation.

2. Key Learning Outcomes

Learning to manipulate data structure using python and understood model training lifecycle

3. Academic Concepts Applied

Object-oriented programming and python programming.

4. Skills Developed

Technical: Python coding , data handling and model building

Communication: Preparing slides and developing weekend PPT

Teamwork: Working together on dataset collection

Problem-Solving: Debugging, syntax errors in code and managing presentation

5. Challenges Faced

Managing code syntax errors and outcoming presentation anxiety

6. Solution / strategies Adopted

Consulted Python documentation and practiced the presentation beforehand

7.Hours Completed This Week: 35 hours

 Muhammad Gazil Name and signature of mentor	 Nitheesh Krishnan Name and signature of faculty mentor	 Anju G. Nair Name and signature of internship supervisor
---	---	--

WEEKLY SUMMARY REPORT - WEEK 3

Duration Covered: 35 Hours

1. Major Activities Undertaken

Setup the project environment, collected raw dataset and analyzed data distribution performed data pre processing cleaning and feature engineering using NLP technologies

2.Key Learning Outcomes

Mastered data cleaning and manipulated using python learned to extract and structure textual feature of NLP models

3. Academic Concepts Applied

Data pre-processing and feature extraction natural language processing (NLP) fundamentals

4. Skills Developed

Technical: Python (pandas), data analysis, NLP basics

Communication: Documenting data workflow

Teamwork: Collaborative dataset validation

Problem-Solving: Resolving data anomalies and text syntax errors

5. Challenges Faced

Handling highly unstructured text, missing data values, and filtering out structured from raw dataset

6. Solution / strategies Adopted

Applied conditional filtering in pandas and followed standard NLP documentation to implement systematic text tokenization

7. Hours Completed This Week: 35 hours



Muhammad Gazil

Name and signature of
mentor



Nitheesh Krishnan

Name and signature of faculty
mentor



Anju G. Nair

Name and signature of
internship supervisor

WEEKLY SUMMARY REPORT - WEEK 4

Duration Covered: 14 Hours

1. Major Activities Undertaken

Built and tested a KNN classification model, development a web UI using stream lit, deployed the application and delivered the final project presentation

2. Key Learning Outcomes

Learned to implement test and debug a KNN machine learning model. Gained experience building and deploying interactive web apps with stream lit

3. Academic Concepts Applied

ML classification (K nearest neighbors) UI/UX development and model deployment

4. Skills Developed

Technical: Model building (KNN), UI development, testing

Communication: Technical presentation and model demonstration

Teamwork: Integrating backend ML code with frontend

Problem-Solving: Debugging runtime deployment bugs and model backlinks

5. Challenges Faced

Fixing code error during model testing and handling dependencies during local stream lit deployment

6. Solutiona / strategies Adopted

Isolated runtime environment dependencies, executed interactive debugging blocks and conducted dry run presentation

7. Hours Completed This Week: 14 hours

 Muhammad Gazi	 Nitheesh Krishnan. P	 Anju G. Nair
Name and signature of mentor	Name and signature of faculty mentor	Name and signature of internship supervisor

FINAL INTERNSHIP SUMMARY (BY STUDENT)

1. Brief description of organization

AgenticX Knowledge Solutions is a professional training and IT skill development organization that focuses on providing practical and industry-oriented training for students, graduates, and working professionals. The organization aims to improve technical knowledge, professional skills, and employability skills through training programs, internships, workshops, and placement support. The company mainly works in the field of professional education and skill development. It helps learners to gain practical.

2. Objectives of internship

To gain practical exposure to the end Ai/ML project life cycle the objective was to master python-based data preprocessing implements code NLP features engineering build functioning KNN classification model and deploy the system through an interactive web user interface

3. Summary of work completed

Completed training in python programming & core AI / ML executed data Collection, cleaning & preprocessing performed feature engineering & NLP testing, debugging & trained KNN model deployed & presented about the final project

4. Major skills gained

Technical: Python development pandas data analysis, NLP workflows, KNN model optimization & stream lit UI development. Professional: logic-based debugging, project lifecycle documentation & presentation skills

5. Research / Innovation exposure (if any)

Explored the conversion of unstructured text into numerical features using NLP processing technologies. Tested ML algorithm & model directly to an interactive front-end framework for real life interface

6. Contribution made to organization

Developed and delivered a fully functioning end to end ML prototype complete with an interactive user interface. Document structured cleaning scripts & features extraction workflows that can serve as material for internal projects.

7. Career insights gained

Acquired valuable delivered insights into the workflow of data specialist recognizing that structured data preparation is critical to models' performance discovered a strong interest in integrating backend and algorithm logic with practical, user interface.

8. Total hours completed: 91 hours



Student Signature:

Date:

FINAL CERTIFICATION BY ORGANISATION

This is to certify that Mr./Ms. Sandra A has successfully completed the internship at AgenticX Knowledge Solutions LLP from 10/4/26 to 2/5/2026 and has completed 91 hours.

General Conduct

- ☒ **Excellent**
- ☐ **Very Good**
- ☐ **Good**
- ☐ **Satisfactory**

Mentor Signature with Official Seal and Date:


Muhammad Gazil



IMPORTANT INSTRUCTIONS FOR Interns

1. The log book must be written and updated daily without fail.
2. All entries must be clear, factual, and written in legible handwriting.
3. Overwriting and backdated entries are strictly not permitted.
4. The minimum required internship hours must be completed as per norms.
5. Submit a copy of each weekly summary report to the Faculty Mentor by email.
6. Submit the mid-term report to the Faculty Mentor, who shall forward it to the Higher Authority.
7. The log book must be submitted along with the Final Internship Report.
8. Submission without Mentor authentication may lead to outright rejection.

DAILY WORK LOG

Students must fill this log daily and obtain weekly authentication from the Mentor.

Date	Time in	Time out	Tasks Performed	Skills Applied / Developed	Mentors Sign
10/4/26	9:30	4:30	Introduction to AI - ML	Communication skill	
13/4/26	9:30	4:30	Python basics	Python coding skills	
14/4/26	9:30	4:30	ML using python	Data handling skills	
15/4/26	9:30	4:30	Data collection and preprocessing	Data analysis	
17/4/26	9:30	4:30	Model training	Model building skills	
18/4/26	9:30	4:30	Week end presentation	Presentation skills	
20/4/26	9:30	4:30	Project introduction and setup	Communication, Python basics, environment setup	
21/4/26	9:30	4:30	Data set collection and understanding	Data handling, data analysis, observation skill	
22/4/26	9:30	4:30	Data preprocessing	Data cleaning, python (pandas), logical thinking	
23/4/26	9:30	4:30	Feature engineering and NLP	NLP basics, feature engineering, analytical skill	
25/4/26	9:30	4:30	Model building (KNN) and testing	Model building evaluation debugging	
27/4/26	9:30	4:30	UI building and deployment	UI development stream lit	
2/5/26	9:30	4:30	Final presentation	Presentation of final working model	

