

ACKNOWLEDGEMENT

I would like to express my sincere gratitude and appreciation to the following individuals who have played a significant role in the successful completion of my internship.

First, I extend my heartfelt thanks to Shri. P.B.KALASAGOND, the Principal of BLDEA's SHREE SANGANBASVA MAHASWAMIJI POLYTECHNIC, Vijayapur. His visionary leadership and constant support have provided me with a conducive environment to pursue my internship and academic endeavors.

I would also like to acknowledge the valuable guidance and encouragement provided by Shri M.S BENAL, HOD of Computer Science Department. His expertise and insightful suggestions.

Furthermore, I would like to express my gratitude to Sri S.R INAMDAR, the cohort owner, for his continuous motivation and support throughout the internship period. His commitment to nurturing talent and fostering a culture of excellence has been truly inspiring.

I am also deeply thankful to Shri Sandeep, the CEO of TechifyIndia, for providing me with the opportunity to undertake this internship. His guidance and mentorship have been invaluable in enhancing my skill and gaining practical experience in the industry.

Last but not least, I extend my heartfelt appreciation to my training Supervisors, Shri MANJUNATH. His expertise, patience, and valuable insights have significantly contributed to the successful completion of my internship. I am grateful for his guidance, encouragement and constructive feedback, which have helped me grow both professionally and personally.

Sincerely,

KRISHNA JADHAV

EXECUTIVE SUMMARY

During my internship at Techify India, I had the opportunity to acquire and enhance various skills, including communication skills, Python programming, HTML, JavaScript, Artificial Intelligence and Machine Learning (AIML), and OpenCV. Throughout the internship, I worked on two significant tasks: developing a library management application using Python's object-oriented programming (OOPs) and functions, and creating a program that detects a traffic light detection using OpenCV.

The internship provided an ideal environment for enhancing communication skills. Regular team meetings, discussions, and interactions with colleagues and supervisors enabled effective collaboration and improved professional communication. Clear and concise communication was essential in understanding project requirements, discussing ideas, and presenting progress updates.

Python, being a versatile and widely-used programming language, was a core focus of the internship. Through hands-on coding exercises and practical projects, I gained a comprehensive understanding of Python's syntax, data structures, and various libraries. This internship provided an excellent foundation for developing web-based applications, as I acquired knowledge of HTML and JavaScript, which are fundamental for creating interactive and dynamic web pages.

AIML, an emerging field in computer science, was another significant aspect of my internship. I had the opportunity to explore and apply machine learning algorithms to real-world scenarios. Understanding the concepts of training models, data preprocessing, and model evaluation broadened my knowledge of artificial intelligence.

One of the key projects I worked on was the development of a Bank Account management application using Python's OOPs concepts and functions. This involved designing and implementing a system that efficiently manages Bank Account resources, including Account transactions. The project not only honed my programming skills but also reinforced the importance of modular and reusable code through object-oriented programming.

Another crucial task involved creating a program that utilizes OpenCV to detect a Face Detection. This involved utilizing computer vision techniques to analyze video input from a camera and process frames to identify Faces. The program implemented real-time monitoring and alert mechanisms to ensure public safety. This project deepened my understanding of image processing and computer vision techniques.

Overall, this internship provided a comprehensive learning experience in multiple areas, including communication skills, Python programming, HTML, JavaScript, AIML, and OpenCV. The hands-on projects, particularly the Bank account application and the Face detection program, enabled practical application of the acquired skills. The internship not only enhanced my technical abilities but also fostered a professional work ethic and effective teamwork.

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ABBREVIATIONS

IT	-	Information Technology
IOT	-	Internet Of Things
AI	-	Artificial Intelligence
ML	-	Machine Learning
CEO	-	Chief Executive Officer
CNC	-	Computerized Numerical Control
MOU	-	Memorandum Of Understanding
OOP	-	Object Oriented Programming
OpenCV	-	Open Computer Vision
NLP	-	Natural Language Processing
DL	-	Deep Learning
SPV	-	Special Purpose Vehicle
TOD	-	Transit-oriented development
HSV	-	(Hue, Saturation, Value)
BGR	-	(Blue,green,red)
CNN	-	Convolutional neural networks

