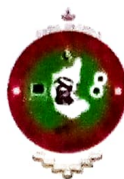


**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,  
BELAGAVI - 590018**



**Mini Project Report**

**On**

**“IMAGE GALLERY APP”**

**A report submitted in partial fulfillment of the requirements for  
MOBILE APPLICATION DEVELOPMENT LABORATORY (18AIMP68)  
in  
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**Submitted by**

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**Under the Guidance of**

**Mr. Shrikanth N G  
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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING  
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY  
MOOBBIDRI-574225, KARNATAKA**

**2022 – 2023**

# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MIJAR, MOODBIDRI D.K. -574225

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## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

### CERTIFICATE

This is to certify that the Mini Project entitled "IMAGE GALLERY APP" has been successfully completed by

**PRASANNA NARAYANA P**  
**SATHYAM A V**  
**SHREYAS**  
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**4AL20AI030**  
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in the partial fulfillment for the award of Degree of Bachelor of Engineering in Artificial Intelligence and Machine Learning of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project Work prescribed for the award of Bachelor of Engineering Degree.

**Mr. Shrikanth NG**  
**Project Guide**

**Approved by the Department**  
**Dept. of Artificial Intelligence & Machine Learning**  
**Alva's Institute of Engineering and Technology**  
**Shophavana Campus, Mijar**  
**Prof. Hanish K. D. K.**  
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### External Viva

#### Name of the Examiners

1. **SHRIKANTH N.G.**
2. **Roda. E. G.**

#### Signature with Date

**14/7/23**

## ABSTRACT

The project aims to develop an image gallery application using Android Studio, a widely used integrated development environment (IDE) for Android app development. The image gallery app provides users with a platform to organize, view, and manage their collection of images on their Android devices. The app offers a user-friendly interface with various features such as image uploading, categorization, searching, and sharing.

The development process involves leveraging the capabilities of Android Studio to build a robust and efficient application. The Android Studio IDE provides a comprehensive set of tools and libraries for developing Android applications, including a visual layout editor, code editor, and an emulator for testing.

To create the image gallery app, the project utilizes key Android components such as activities, fragments, and RecyclerViews for displaying the images in a grid layout. The app incorporates features like image selection, zooming, and swipe gestures for smooth navigation and enhanced user experience. Additionally, the app integrates various APIs and libraries to implement functionalities like image caching, thumbnail generation, and image compression for optimized performance.