

Amey Pandit

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EXPERIENCE

EYANTRA, INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY | EYSIP SUMMER INTERN
(DJANGO, REST, FLUTTER, OPENCV, TENSORFLOW, UNET, SQLITE)

May 2023 - Present | Mumbai

- Enhanced Process of Dataset Collection by Developing Pest Controlling Application that involved Pest Detection, Pest Classification, Image Background Removal.
- Executed Background Removal flawlessly by leveraging U-Net architecture to generate masks and employing GrabCut algorithm using OpenCV.
- Achieved remarkable **95% accuracy** utilizing UNet architecture and seamlessly integrated TFlite model into an Android App.

ASTHETECH | SOFTWARE DEVELOPMENT INTERN

(DART, FLUTTER, FIREBASE, RIVERPOD)

Jan 2023 – Mar 2023 | Mumbai

- Optimized code for improved app performance, **reducing loading** times by **40%** and enhancing responsiveness.
- Spearheaded the integration of **Geo Location** functionality into the applications, enabling location-based services and leveraging Firebase for Authentication and Realtime Firestore Storage.
- Employed Riverpod for efficient state management, conducted comprehensive testing, and seamlessly integrated animations using Lottie.

TECHQ KONNECT TECHNOLOGIES | ANDROID DEVELOPER INTERN

(ANDROID, NODEJS, MYSQL, FIREBASE)

Oct 2021 – Nov 2021 | Mumbai

- Executed the implementation of data storage modules and the deployment of a serverless backend using Lambda Functions, resulting in a **30%** improvement in app performance and scalability.
- Engineered a dynamic Chat Bot that efficiently resolved client issues, contributing to a **20% reduction** in customer support response time.

PROJECTS

STOCKIFY ([Check it here](#))

(NEXT.JS, CHAKRA UI, REACT ICONS, FLASK, FACEBOOK'S PROPHET, DOCKER)

Stockify helps users make informed decisions by predicting stock prices using historical data and Facebook's Prophet forecasting model. It provides valuable insights into a stock's potential future performance.

FARMER BUDDY ([Check it here](#))

(FLUTTER, NODE JS, MONGO DB, TENSORFLOW, FASTAPI, DEEP LEARNING)

App aims to provide a user-friendly platform for buying and selling products, seeking donations, chatting with farmers and NGOs, yield predictions, crop recommendation and accessing videos on farming techniques along with **94% accuracy** using ResNet152V2 for crop disease detection.

IT CONNECT APP ([Check it here](#))

(ANDROID, NODE JS, MONGO DB, FIREBASE)

This is an android app made for our college students of IT branch to Share Notices, Book Pdfs, Ebooks, Timetable and Other Academic Alerts. Made Using Java, Firebase and Node Backend.

OTHER EXPERIENCES

EYANTRA, IIT BOMBAY 2023 - PARTICIPANT

(PYTHON, OPENCV, RASPBERRY PI, ALPHABOT, SOCKET, COPPELIASIM)

Developed a **Pharma Bot** for the Eyantra Robotics Competition at IIT Bombay. It operated in a smart city with shops containing up to four medicines of different colors. The bot could activate, scan, and deactivate QR codes at the shops, which held medicine information. It used Line Following, path planning (**A* algorithm**), and LED indicators for efficient navigation and pickup/dropoff of medicines. An overhead camera detected an ArUco marker to visualize the bot's run in CoppeliaSim.

SMART INDIA HACKATHON 2022 - PARTICIPANT

(DEEP LEARNING, SVM)

With the team of 6 Team Members we worked on Depression Detection Using MRI Scans to develop Computer Aided Diagnosis Model using **Support Vector Machine**. Solution Got Selected Under Waitlisted Category.

IEEE ACE CHAPTER - TECHNICAL VOLUNTEER

(UNITY, ESP32, VUFORIA)

We worked on Auto-Driving Car. Implemented **AR Switch** For Car using **Blink API** and other functionalities. Also Developed **AR based Interior Designing App**.

EDUCATION

ATHARVA COLLEGE OF ENGINEERING

- MUMBAI UNIVERSITY

BACHELOR OF ENGINEERING IN INFORMATION TECHNOLOGY

CGPA : 9.58/10 | 2020-2024

SATHAYE COLLEGE, MUMBAI

HSC (PCMB)

PERCENTAGE : 71% | 2020

ST. XAVIER'S HIGH

SCHOOL, MUMBAI

SSC

PERCENTAGE : 88.60% | 2018

LINKS

Website: amey.me

Github: [panditamey](https://github.com/panditamey)

LinkedIn: [ameypandit](https://www.linkedin.com/in/ameypandit)

COURSEWORK

Data Structures and Algorithms

Database Management Systems

Computer Network

Computer Organisation and Architecture

Object Oriented Programming

Computer Networks

Image Processing

Operating System

Machine Learning

SKILLS

LANGUAGES

Dart, Python, Solidity, C, C++ , Java, JavaScript, TypeScript

ML & AI

TensorFlow, Pandas, NumPy, Scikit-learn, Matplotlib

APP & WEB

HTML, CSS, ASP.NET, Salesforce, LWC, Flutter, AJAX, SQL, MongoDB, MERN, Next, REST, Django, Flask

OTHER

AWS, GCP, Docker, Heroku, Android Studio, Blockchain, Unix, Bash, IOT, Agile, Scrum, GIT, CI/CD, Jira

COMMUNITY EXPERIENCE

Google DSC ACE Lead 2022-23 - Organized Hackathon and many workshops on Android, Web Development, GCP, ML, etc.

Google DSC VJTI Team Member 2021-22 - Participated in Android Study Jam, Flutter Festival, 30 Days Of GCP, etc.

PUBLICATIONS

Diabetic Retinopathy Detection using Android Application. 2022 IEEE Bombay Section Signature Conference (IBSSC), 2022.