

AMEY PANDIT

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EDUCATION

Atharva College Of Engineering - University of Mumbai

2020 - 2024 (Expected)

Bachelor of Engineering in Information Technology

CGPA:9.58/10

Coursework: Data Structures and Algorithms, Database Management Systems, Computer Network, Computer Organisation and Architecture, Computer Networks, Image Processing, Operating System.

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.

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

EXPERIENCE

eYantra, Indian Institute of Technology, Bombay

May 2023 - Present

eYSIP Summer Intern (*Django, REST, Flutter, OpenCV, Tensorflow, UNet, SQLite*)

Mumbai

- Developed Pest Controlling Application that involved Pest Detection, Pest Classification, Image Background Removal.
- Background Removal was implemented with masks generated using **U-Net**, and **GrabCut** using Open CV.
- Got **95%** accuracy using UNet, Also Implemented TFlite Model in Android App.

AsTheTech

Jan 2023 – Mar 2023

Software Development Intern (*Dart, Flutter, Firebase, Riverpod*)

Mumbai

- Enhanced Android apps through feature implementation and performance optimization.
- Integrated **Geo Location** functionality into the applications for location-based services and Firebase for Authentication, Realtime Firestore Storage.
- Utilized Riverpod for state management, conducting thorough testing and Integrated animations using Lottie.

Techq Konnect Technologies

Oct 2021 – Nov 2021

Android Developer Intern (*Android, NodeJs, MySQL, Firebase*)

Mumbai

- Contributed to various Android projects, focusing on data storage, serverless backend, and chat bot development.
- Developed data storage modules and **Serverless Backend** using **Lambda Functions** to enhance app functionality.
- Created a **Chat Bot** to efficiently resolve client issues and improve customer support.

PROJECTS

Stockify (*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. (Check it here)

Farmer Buddy (*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. (Check it here)

IT Connect App (*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. (Check it here)

PUBLICATIONS

Diabetic Retinopathy Detection (IEEE Bombay Section Signature Conference (IBSSC) 2022)

Worked under Prof.Pranoti Nage on Diabetic Retinopathy Detection by Deep Learning.Tried to solve issue of testing retinal image samples using Mobile device. Developed, Tested and Compared many CNN Models. Used APTOS Dataset for training and testing models. Implemented the model in an Android app using TFlite and Flutter. (Check it here)

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/drop-off 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 Learning. 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.

COMMUNITY EXPERIENCES

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.