

Pratiksha Vijay Shirsath

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EDUCATION

MS in Computer Science and Engineering

State University of New York

2022 – present
Buffalo, New York

Coursework: Analysis of Algorithms, Distributed Systems, Computer Vision and Image Processing, and Information Retrieval.

Bachelor of Engineering, Information Technology

Savitribai Phule Pune University

2018 – 2022
Pune, India

PROFESSIONAL EXPERIENCE

Salesforce Trainee

Persistent Systems

05/2021 – 07/2022
Pune, India

- Participated in training and knowledge-sharing sessions to improve my understanding of the Salesforce platform.
- Worked on Salesforce Administration and configuration tasks, including creating custom objects, fields, and workflows.
- Attained knowledge in Apex programming, Flow Building, Data Security and VisualForce on the Salesforce Platform
- Trailhead [🔗](#)

Academic Salesforce Intern

Persistent Systems

12/2021 – 06/2022
Pune, India

- Assisted in the design, development, and implementation of Salesforce solutions for clients.
- Worked with Apex, Visualforce, and Lightning frameworks to develop custom solutions.
- Collaborated with cross-functional teams to understand client requirements and deliver solutions.
- Assisted in the testing and deployment of Salesforce solutions.

PROJECTS

Multi-Topic IR chatbot | Python, Flask, Apache Solr, Tensorflow

08/2022 – 12/2022

- Developed a multi-topic information retrieval chatbot capable of performing 15+ turns of coherent utterances.
- Indexed 200k+ multi-lingual Reddit data in Apache Solr and used it as the chatbot dataset.
- Used a pre-trained BERT model to classify chitchat and Reddit data, calculated the similarities of the top 20 retrieved documents with the user query, and responded with the document having the maximum similarity.

Face Detection and Clustering | Python, OpenCV

08/2022 – 12/2022

- Developed a computer vision project using OpenCV and a face recognition library to detect and cluster faces.
- Performed face detection using OpenCV's built-in Haar-cascades classifier and cropped the detected faces.
- Utilized k-means algorithm to cluster faces with the same identity.
- Improved image organization by grouping similar faces together, achieving the project goal of efficient face recognition and image processing.

Camera Calibration and Rotation Matrix Determination | Python, OpenCV

- Developed a computer vision project to determine the camera calibration matrix and rotation matrix using Python.
- Implemented OpenCV library to extract intrinsic and extrinsic parameters of the camera.
- Utilized a chessboard pattern for image calibration and used singular value decomposition to calculate the rotation matrix.
- The project improved the accuracy of image recognition and augmented reality applications.

Remicare : Medicine Intake Tracker Android App | Dart, Flask, OpenCV, NLTK, Android

08/2021 – 05/2022

- Designed and developed the user interface of the Android app using Dart
- Built the back-end of the app using Flask, with the integration of OpenCV for image processing and NLTK for natural language processing
- Implemented image recognition and text extraction techniques to automatically extract information from images of medicine

ORGANIZATIONS

KPIT Sparkle 2021 [🔗](#)

Pune, India

Head of the Event Coordinators committee

Handle all the teams in the national-level hackathon presenting their ideas to the panel members.