

APOORV DIXIT

Los Angeles, CA 90007 | 213-574-5136 | apoorvdi@usc.edu | linkedin.com/in/apoorvdixit9

EXPERIENCE

Siemens Digital Industries Software

Pune, India

Software Engineer - Associate

December 2022-July 2023

- Developed and contributed to Siemens Zel-X, a cutting-edge cloud-based SaaS platform facilitating seamless creation, storage, editing, and collaborative sharing of CAD files and projects. Technology Stack - ReactJS, Siemens Web Framework, ThreeJS
- Undertook research initiatives in collaboration with Machine Learning Scrum Team to explore and showcase diverse Artificial Intelligence applications within Computer-Aided Design domain. Filed patents for two projects (undisclosed)
- Implemented an AI pipeline for conversion of Scanned Images of CAD Drawings into 2D Drawing Files by applying a combination of Optical Character Recognition, Image Processing, Computer Vision, and Named Entity Recognition. Technology Stack - Python, Google Vision, OpenCV, SpaCy
- Designed and executed a Proof of Concept for a Dynamic Virtual Assistant and ChatBot within Siemens Zel-X. Technology Stack - VueJS, Siemens Web Framework, OpenAI LLM, Google Dialogflow
- Won five times at Quarterly Siemens DISW Mainstream Engineering Department Innovation Days
- Applauded for excellent work in redesigning "Delete" Command of Siemens Zel-X
- Recognized for generating awareness about ChatGPT and Large Language Models (LLM) among employees
- Served as a member of the assessment panel of Siemens Scholarship Program
- Volunteered within the organizing team of Siemens DISW Mainstream Engineering Family Day
- Conducted multiple training sessions for Siemens' employees on AI techniques such as OCR, NLP, Computer Vision, LLM

Siemens Digital Industries Software

Pune, India

Graduate Trainee Engineer

July 2021-December 2022

- Worked as a Web Developer on Xcelerator Share, a cloud-based SaaS platform enabling seamless storage and secure sharing of CAD files and projects. Technology Stack - VueJS, ExpressJS, BrowserStack
- Honoured by Mainstream Engineering department for significant contribution to new functionality immediately after training

BizAmica Software Pvt. Ltd

Pune, India

Machine Learning Intern

August 2020-March 2021

- Implemented a comprehensive AI Pipeline for Bajaj Allianz Life Insurance to identify named entities within Scanned Legal Documents and delineate bounding boxes around extracted data. Technology Stack - SpaCy, Tesseract OCR, Google Vision, BERT

Bynry Inc

Pune, India

Web Development Intern

May 2020-July 2020

- Contributed to the development of a specialized B2B Web Application Platform catering to clients within the Energy and Utility Sector. Designed web pages crucial for product demonstrations to clients, showcasing the platform's capabilities. Technology Stack - Angular, TypeScript, Figma

Center for Development of Advanced Computing (C-DAC)

Pune, India

Research Intern

February 2020-May 2020

- Conducted in-depth study and analysis to evaluate the performance and capabilities of Face Embedding Deep-Learning Models, such as FaceNet and DR-GAN. Executed comprehensive benchmarking assessments to determine the efficiency and effectiveness of twenty distinct Similarity Search Algorithm Libraries

EDUCATION

University of Southern California

Los Angeles, California

Master of Science

January 2023-Present

Pune Institute of Computer Technology

Pune, India

Bachelor of Engineering

January 2017-December 2021

SKILLS

- Programming Languages: JavaScript, Python, Solidity, Java, C++
- Web Development Tools: VueJS, ThreeJS, ExpressJS, BrowserStack, Siemens Web Framework, ReactJS, Angular, Django
- Databases: MongoDB, MySQL, Firebase
- Machine Learning Libraries: Tensorflow, SpaCy, Transformers, Google Vision, Tesseract, OpenCV, OpenAI, Pytorch
- Certification: AWS Partner - Accreditation (Technical), Machine Learning (Coursera), DeepLearning.ai Specialization

ACADEMIC PROJECTS

DigiSOLE Sneaker Store

- Developed an e-commerce full-stack website for sneakers. Technology Stack - VueJs, ExpressJs, MongoDB, Firebase, Render Hosting Platform. Explore the project at <https://digisole-sneakers.onrender.com>

Decentralized Vaccine Management System

- Built a Supply Chain Management System tailored for Vaccines, harnessed by Ethereum Blockchain. Technology Stack - Solidity, JavaScript, ReactJS, NextJS, Mocha, Ganache

Classifier System for Detection of Diabetic Retinopathy

- Created deep learning models to detect the presence and stage of Diabetic Retinopathy in a retinal image. Developed a Web interface with Django Framework to interact with AI Models

MCQ Platform

- Designed the BackEnd of a WebApp for MCQ-based coding competitions. The project was deployed for Pulzion' 19 - The annual Technical Fest of PICT. Technology Stack - Django