Apoorv Dixit

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

EXPERIENCE

Siemens Digital Industries Software

Software Engineer - Associate   Dec 2022-Jul 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 - Siemens Web Framework, ReactJS, 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 Engg Dept 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 like OCR, NLP, Computer Vision, LLM

Graduate Trainee Engineer   Jul 2021-Dec 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.

Machine Learning Intern   Aug 2020-Mar 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, Google Vision, BERT

Bynry Inc

Web Development Intern   May 2020-Jul 2020

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

Center for Development of Advanced Computing (C-DAC)

Research Intern   Feb 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   Aug 2023 - Present
Master of Science in Computer Science

Pune Institute of Computer Technology   Aug 2017 - Apr 2021
Bachelor of Engineering (Computer Engineering)   GPA: 9.14/10

PROJECTS

- **DigiSOLE Sneaker Store:** Developed an e-commerce full-stack website for sneakers. Technology Stack - VueJs, ExpressJs, MongoDB, Firebase, RenderHosting 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 Webinterface 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 annualTechnical Fest of PICT. Technology Stack - Django

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