

Apoorv Dixit

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EXPERIENCE

Siemens Digital Industries Software

Software Engineer - Associate

12/2022 - 07/2023

- 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 to explore and showcase diverse Artificial Intelligence applications within the 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 (POC) 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.
- Recognized for excellent work in redesigning "Delete" Command of Siemens Zel-X.
- Recognized for generating awareness about ChatGPT and LLMs among employees.
- Volunteered on the assessment panel of Siemens Scholarship Program.
- Volunteered on 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, LLMs.

Graduate Trainee Engineer

07/2021 - 12/2022

- 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
- Recognized for significant contribution to new functionality immediately after training.

BizAmica Software Pvt. Ltd.

Machine Learning Intern

08/2020 - 03/2021

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

Bynry Inc.

Web Development Intern

05/2020 - 07/2020

- 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

02/2020 - 05/2020

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

EDUCATION

University of Southern California

2023 - Present

Master of Science in Computer Science

Pune Institute of Computer Technology

2017 - 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, 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 the 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 the AI Models.
- MCQ Platform:** Designed and developed the BackEnd of a WebApp for MCQ-based coding competitions, with a successful deployment for my college's Annual Technical Fest, Pulzion' 19. 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