ARCHIT RATHOD

🌐 Website ✉ Email in LinkedIn ⌨ GitHub

Education

Thadomal Shahani Engineering College   Aug. 2020 – June 2024
Bachelor of Engineering in Information Technology   *Mumbai, Maharashtra*

Experience

Kaizen Future Tech   June 2021 – July 2021
Remote Intern   *Mumbai, Maharashtra*
- Built IoT projects using Arduino and Node MCU CPUs on virtual software like TinkerCAD and Proteus. Learnt Arduino Programming in C/C++ and different sensors used in solving real-life problems.

SimPPL.org   April 2023 – Present
Research and Web Intern   *Remote(MIT, Boston)*
- Analyzing YouTube videos using YouTube data API, extracting insights and creating network graphs for visualization.
- Working on NLP pipelines on Virtual Machines to automate the process of Data Collection, Processing and Storing using Google Cloud Platform.
- Modifying website with multiple product pages, deploying on Vercel and Netlify, API testing, and writing documentations. Also worked on a grant which got accepted by YouTube which helped increase the API usage limit for the company by 5 times.

Publications

A. Rathod, V. Pariawala, M. Surana, **Leveraging CNNs and Ensemble Learning for Automated Disaster Image Classification** – Springer, ICSISCET, **2023**

A. Rathod, S. Sankepally, M. Surana, A. Surve, R. Jain, A. Shamraj, S. Mehta, G. Malpani, **Multi-Agent Simulators for Social Networks** – Working Paper, **2023**

M. Surana, V. Pariawala, A. Rathod, S. Nachane, J. Tiwari, P. Vishwakarma, **Cross Lingual Text-to-Video Synthesis of Press Information Releases** – Working Paper, **2023**

Projects

Attire.AI | *Next.js, Tailwind, Stable Diffusion, LLama, VGGNet, ZoeDepth, Fast API*   ⌨ **GitHub**
- Attire.AI is a conversational fashion outfit generator that enabled users with interactive features such as adding clothing items to images and receiving tailored fashion recommendations.
- Offered a dynamic fashion experience through a canvas interface and chat-bot, allowing users to explore, enhance, and personalize their fashion choices in an innovative way.

Social Vision | *Next.js, Tailwind, MongoDB, ML Models, Fast API, Tweets Dataset*   ⌨ **GitHub**
- Social Vision identifies coordinated behavior on social media by grouping users with similar article posts.
- It detects propaganda, agendas, and fake news using techniques like keyword extraction, multi-class classification, and sentiment analysis within these networks.

Reflections Blogs | *Next.js, Tailwind, BERT, Summarizer, CountVectorizer, Mongo DB*   ⌨ **GitHub**
- Reflections, a dynamic blogging platform fostering storytelling and self-expression. Implemented AI-driven features like recommendations, next-word prediction, sentiment analysis, and grammar correction to enhance user experience.
- Empowered writers to craft compelling content and connect with readers effectively. Revolutionized the blogging experience with innovative tools for efficient and engaging writing.

PowerUp | *React JS, Tailwind CSS, Node JS, Mongo DB, API's*   ⌨ **GitHub**
- Power Up is a health monitoring and diet tracking app for Wear OS smart watches, supporting weight, steps, and calorie tracking with goal setting and dietary preferences.
- Users can chat with AI-based chat-bots, customizing their health experience based on their health conditions and preferences.

Technical Skills

Languages: Javascript, Typescript, Python, C++, HTML
Tools/Frameworks: React.js, Node.js, FastAPI, Next.js, Git, Githhub, jQuery, Tailwind CSS
Databases: MySQL, MongoDB, BigQuery
Devops: Vercel, Google Cloud Platform(GCP), Docker