

Sujit Rukade

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EDUCATION

Pune Institute of Computer Technology

B.E., Electronics and TeleCommunication Engineering

CGPA - 8.41

Pune, Maharashtra

2022 - Present

Shraddha Junior College of Science and Commerce

HSC - 87.33%

Ichalkaranji, Maharashtra

2020 - 2022

Deep Public School

Grade X - 91.8%

Jaysingpur, Maharashtra

2010 - 2020

PROJECTS

Pulzion'24 Submission Platform | *Node.js, Express.js, PostgreSQL, Flask, Nextjs*

[Project Link](#)

- Developed a Submission Portal for Pulzion '24, handling 500+ user submissions, integrating Node.js, Express.js, Next.js, and PostgreSQL for backend, frontend, and database management.
- Developed an admin panel for managing routes, submissions, result downloads, and dynamic route editing with access control based on event deadlines, ensuring smooth real-time updates through API integration with Axios.
- Led a team of 5+ developers to refactor the frontend architecture, implementing performance optimizations and scalable design patterns. Achieved zero downtime during the event, providing a seamless experience for over 500+ participants with real-time submission updates and a responsive user interface.

OCR Web Application | *Python, Flask, HTML, CSS(Materialize CSS)*

[Project Link](#)

- Developed a Python-based Optical Character Recognition Web App with Tesseract, featuring an intuitive interface for seamless image uploads and text extraction, enhancing accessibility and user engagement.
- Achieved over 90% text extraction accuracy with pytesseract on diverse datasets, significantly streamlining data input processes and increasing efficiency.
- Optimized image processing algorithms to decrease processing time by approximately 20%, leading to a faster and smoother user experience.

WhatsApp Text Analyzer | *Python, Streamlit, Matplotlib, Seaborn*

[Project Link](#)

- Developed a tool to understand the behavior of individuals in chat conversations by visualizing statistics and engagement patterns, addressing challenges such as processing diverse file types, segregating group vs. personal chats, and determining the most valuable features to include.
- Built the analyzer using Streamlit for the interface. Implemented features such as emoji stats, word clouds, a monthly timeline, and activity maps for both weekly and monthly chat trends.
- Delivered a user-friendly tool that streamlined the process of understanding chat dynamics and engagement, significantly reducing the time needed for manual analysis while providing actionable insights into user interactions.

Dialogue Summarizer (Ongoing) | *Python, Transformers, NLTK*

- Currently developing a text summarization application utilizing the Pegasus transformer model from the Hugging Face Transformers library.
- Leveraging PyTorch for model training and optimization, implementing techniques like gradient checkpointing.
- Implementing data ingestion, validation, and preprocessing pipelines to manage and prepare conversational datasets for model training, ensuring data integrity.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, SQL (MySQL), JavaScript, HTML/CSS, TypeScript

Frameworks/Libraries: ReactJS, NextJS, TailwindCSS, Shadcn, Pandas, NumPy, Matplotlib, Scikit-learn, Seaborn, Tensorflow, Keras

Developer Tools: Git, Github, Postman, VS Code, PyCharm, IntelliJ

Coursework: Object Oriented Programming, Data Structures and algorithms, Machine Learning, Database Management Systems, Computer Networks

Soft Skills: Teamwork, Patience, Active Listener, Problem-solving, Communication Skills, Leadership, Adaptability

POSITION OF RESPONSIBILITY

Event Lead | *PASC (PICT ACM STUDENT CHAPTER)*

- PASC is the official student chapter of the Association for Computing Machinery (ACM) at PICT.
- Pulzion, the annual flagship event of PASC, features a variety of technical and non-technical competitions. Served as the Event Lead for the Fandom event with a team of 10+ members.
- Led the frontend development team of 5+ developers for the Submission Portal used for managing entries and submissions during Pulzion, which handled 500+ user submissions.