

# VIVEK PUSTI

☎ 7992261630 ✉ [vivekpusti1999@gmail.com](mailto:vivekpusti1999@gmail.com) 🔗 [linkedin.com/in/vivek-pusti](https://www.linkedin.com/in/vivek-pusti) 🐙 [github.com/Vivekpusti](https://github.com/Vivekpusti)

## Education

MIT School of Engineering, Pune

Sep. 2019 – May 2023

Bachelor of Technology in Computer Science

CGPA : 8.21/10

Motilal Nehru Public School, Jamshedpur

2019

12th/ISC

78%

Motilal Nehru Public School, Jamshedpur

2017

10th/ICSE

71%

## Experience

CME Group

July 2023 – Present

Software Engineer 1

Bangalore, Karnataka

- Refactored **Spring Boot**-based regulatory alert services, achieving a **30% reduction in response times** and ensuring **full compliance with industry standards**.
- Developed an end-to-end **validation framework** for external firm file uploads, automating **error detection**, **compliance checks**, and **rejections**—enhancing **data accuracy** and **processing efficiency**.
- Designed and deployed the **Firm Summary Portal** to visualize all regulatory upload data with advanced **filtering** and **tracking** features, improving **auditability** and user experience.
- Optimized the **file ingestion pipeline** by streamlining **processing logic** and **resource management**, reducing execution time by **40%**.
- Applied **Redux**-based state management in the Firm Summary Portal, enabling **real-time updates** and boosting user productivity by **30%**.
- Enforced **API performance enhancements** through strategic **caching** and **SQL query tuning**, significantly improving **response times under load**.
- Executed a dynamic **email templating system** to automatically notify firms with detailed upload summaries (**Successful**, **Rejected**, or **Partially Processed**), improving **communication** and **traceability**.
- Collaborated cross-functionally with **QA** and **DevOps teams** to streamline **CI/CD pipelines** and improve **deployment reliability** for regulatory microservices, reducing **release issues by 25%**.

Lets Grow More

June 2022 – July 2022

Web Development Internship

Remote

- Streamlined **back-end processes**, improving **website loading speed by 35%** and **reliability by 20%**, directly enhancing **user satisfaction**.
- Developed **interactive front-end interfaces** that increased **user engagement**, contributing to higher **customer satisfaction**.

## Projects

TENOR | Python, Numpy, Pandas, Convolutional Neural Networks (CNN), Flask, OpenCV

January 2022

- Developed a Music Recommendation System that suggests songs based on facial expressions.
- Utilized CNN models to detect emotions (happy, sad, angry, etc.) from facial expressions.
- Deployed the system using Flask, enabling real-time emotion-based music suggestions.

HBV MORTALITY PREDICTION | Python, Machine Learning, Streamlit

November 2021

- Built a web app that predicts Hepatitis B virus mortality using machine learning models.
- Integrated prediction algorithms to provide user-specific recommendations based on health data.
- Implemented the app with Streamlit for an intuitive and interactive user experience.

PERSONAL PORTFOLIO | HTML, CSS, JavaScript, Git

October 2022

- Created a personal website to highlight my skills, projects, and internships.
- Built an interactive portfolio to demonstrate my full-stack development capabilities.
- Published the website on GitHub for seamless access and continuous updates.

## Technical Skills

Languages/Tools: Java, Python, C++, JavaScript, Docker, Kubernetes, Jenkins, Git

Frameworks: Spring Boot, REST API Development, React.js, Flask

Cloud/Others: Google Cloud Platform (GCP), MySQL, PostgreSQL, CI/CD, OpenCV