

KASHISH SHRIVASTAV

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EDUCATION

Parul Institute of Engineering and Technology, Vadodara

Bachelor of Technology, Computer Science and Engineering

Aug 2023 – Present (Expected 2027)

Green Valley High School

Intermediate, Central Board of Secondary Education

Aug 2020 – May 2022

EXPERIENCE

Google Summer of Code 2025

June 8, 2025 – September 9, 2025

Project: *Stingray.jl – X-ray Timing Analysis* | Julia, Data Analysis, Big Data | [Project Link](#)

- Developed and optimized **data science and software modules** in Julia, improving **scalable signal processing systems**.
- Applied **machine learning** for detection of periodic signals, ensuring accuracy on **large datasets**.
- Contributed **80+ commits (19,000+ LOC)** on GitHub, following full **software lifecycle**: development, testing, and maintenance.

PROJECTS (MORE THAN 25)

Emigen | Python, Docker, MySQL | GitHub | [Live Demo](#) | [Video](#)

- Built a web gateway to explore **NASA's massive image archives**, including **Hubble's 600-snapshot Andromeda mosaic** and daily Earth observations via GIBS.
- Created a **unified interface** to explore galaxies, scan Mars, view Earth updates, and browse Astronomy Picture of the Day collections.

AlgoVerse | Java, JavaFX, Spring Boot, Weka, Tribuo, MOA | GitHub

- Developed an interactive platform for **algorithm analysis** with **real-time visualizations** of sorting and searching algorithms.
- Implemented **image pixel-sorting lab** where uploaded images are processed using multiple algorithms to demonstrate efficiency.
- Built a **code complexity analyzer** using ML models (Weka, Tribuo) to predict time and space complexity classes from code patterns.

Health-Chain | Ethereum, Web3, TensorFlow, Blockchain, Machine Learning | GitHub | [Video](#)

- Developed **decentralized medical data system** with secure blockchain integration using MetaMask and Ethereum.
- Implemented **deep learning models** (TensorFlow, Scikit-learn) for emotion recognition, achieving **80% accuracy**.
- Trained a model based on **image segmentation** to analyze facial expressions.

INCOIS | Django, Satellite and Remote Sensing, NLP (BERT), Social Media Monitoring (Reddit) | GitHub | [Live Demo](#) | [Video](#)

- Built a **hybrid AI-driven hazard monitoring framework** integrating crowdsourced social media intelligence with satellite-based ocean observation systems for **real-time alerts** on tsunamis, storm surges, and coastal flooding.
- Utilized **NASA API keys** to fetch real-time ocean data (height, wind speed, temperature) and displayed it on an **admin dashboard**.
- Deployed on **cloud infrastructure (GCP)** with scalable data processing pipelines (only Login Credentials Database).

TECHNICAL SKILLS

Languages: C, C++, Java, Julia, JavaScript, HTML/CSS, Go, Python

Frameworks/Libraries: Django, Flask, Express.js, Node.js, Bootstrap, React.js, Next.js

Developer Tools/Templates: Git, GitHub, VS Code, Jupyter Notebook, Docker, CI/CD workflows

Data Visualization: Tableau, Power BI, Matplotlib

Cloud/Databases: GCP BigQuery, MongoDB, SQL

Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Computer Networks, Operating Systems, Machine Learning, Deep Learning, CVAT, Dynamic Programming, Linux

RESPONSIBILITIES

Maintainer of Stingray.jl at Stingray Software

Member of Google Developers Group (Gandhinagar)

Organizer of NASA Space Apps Challenge (Ahmedabad)

ACHIEVEMENTS

Winner of MyOnsite Hackathon 2024 (1st place, [Project Rizer](#))

Ranked **Top 100/10,000+** in Rukethon 2024 ([Project Styfit](#))

Google Summer of Code 2025 ([Completion Certificate](#))