Mr. Hanzala Sarguroh

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⌨ Skills

Languages: JavaScript | TypeScript | Python | SQL

Technologies & Tools: Node.js | Angular | NgRx | Flask | Express.js | TensorFlow | Keras | Scikit-learn | CNN | RNN | ANN | NLP | XAI | SHAP | AI Agents | REST APIs | Web Sockets | Tailwind CSS | Material UI | PrimeNG

Databases: Firebase | MySQL | MongoDB

🎓 Education

Lokmanya Tilak College of Engineering, Navi Mumbai	2022 – present
BE in Computer Engineering	8.5 CGPA

Government Polytechnic Thane	2019 – 2022
Diploma in Computer Engineering	85.94%

📁 Projects

CounterFactual Data Augmentation using XAI ↗
Python | CFA | SHAP | Scikit-learn | Pandas | NumPy | Matplotlib | Seaborn
- Developed Counterfactual Data Augmentation, boosting minority class by 40% and accuracy by ~20%.
- Used XAI (SHAP) to validate data, ensuring 95%+ alignment with real distributions.
- Optimized pipeline, reducing training bias by 40% and improving robustness.
- Enhanced decision boundaries, increasing model fairness and performance.

SwiftCart (eCommerce Web App) ↗
Angular | Ngrx | Node.js | Express.js | MongoDB | TailwindCSS
- Developed a comprehensive eCommerce website featuring user authentication, shopping cart , checkout functionalities.
- Implemented robust state management using NgRx, ensuring efficient application state handling.
- Designed user-friendly, attractive UI using Tailwind CSS.

Gemino AI (Personal Assistant) ↗
Chrome Extension using Chrome's Built-in AI API's
- Developed GeminoAI, a Chrome extension using built-in AI APIs for enhanced browsing with a seamless user experience.
- Added features: chat responses, page summarization, text translation, and simplification.
- Integrated Chrome's Built-in AI APIs: Prompt API, Summarize API, Translation API, and Rewrite API.

Task Flow (Task Tracker Web App) ↗
Angular | Node.js | Express.js | Ngrx | TailwindCSS
- Developed TaskFlow, a full-stack task-tracking web app enabling users to manage tasks.
- Built a secure backend with Node.js and MySQL, supporting user authentication and data management.
- Utilized Angular and NgRx for efficient state management and seamless frontend interactions.
- Delivered a responsive, modern UI with a focus on user experience and productivity.

Pediatric Pneumonia Classification from Chest X-rays ↗
Python | CNN |Random Forest | SVM | Logistic Regression
- Developed a cost-sensitive deep learning-based meta-classifier for pediatric pneumonia classification using chest X-rays.
- Implemented state-of-the-art models (Xception, InceptionResNetV2, DenseNet201, NASNetMobile) for feature extraction.
- Applied kernel principal component analysis (KPCA) for dimensionality reduction and feature fusion.
- Developed a stacked ensemble meta-classifier (random forest, SVM, logistic regression) for accurate prediction.

💼 Internships

UpSkill Campus ↗	Feb 2024 – Mar 2024
Python Developer	

Ignitech ↗	Jul 2021 – Sep 2021
Artificial Intelligence and Machine Learning	

📇 Certifications

- Trainee - Advance Course By SAP ↗
- Programming with JavaScript ↗
- Artificial Intelligence and Machine Learning ↗
- Version Control ↗
- Single Page Web Applications with Angular ↗

🏠 Organizations

Internshala	Jun 2024 – present
Internshala Student Partner	

Google Developers Student Club	Aug 2023 – present
App. Dev. Coordinator	