Yash Buddhadev

Mozilla Fellow @SimPPL and Ex-Intern @Infiheal HealthTech

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Profile

A student passionate about Artificial Intelligence, Computational Finance, Machine Learning, NLP and Development. With a drive for problem-solving and a desire to stay ahead in the rapidly evolving field of data & computing, I'm poised to make a meaningful impact in these dynamic realms, keep learning on the way and contribute meaningfully to such fascinating arenas.

Professional Experience

Mozilla Fellow, *@SimPPL*   **Remote, HQ in New York** *February 2024 - present*
- Developing a persona-based AI system, 'PhysioPlay', which essentially helps physiotherapy students and doctors to practice and sharpen their diagnostic instinct which is entirely backed by Mozilla India.

Research Intern, *@USCMarshall*   **Remote, California** *February 2024 - present*
- Assisting on a research project related to the automation of agricultutal goods supply chain management, monitoring and optimization in terms of market-basket sizes geographically.

Product Developer, *@Infiheal HealthTech*   **Remote, HQ in Pune** *February 2024 - present*
- Contributed to build an app using Flutter, developing revenue models, achieve a product-market fit in the AI space having a lack of benchmarks in India, doing competetive analysis for further research and development.

Co-Curriculars

Founding Member and Chairperson, *@DJS InfoMatrix*   **Mumbai, India** *January 2024 - present*
- Founded a students tech-club under Artificial Intelligence and Data Science department at Dwarkadas J. Sanghvi College of Engineering, Leading a team of 50+ professionals across domains of Artificial Intelligence, Data Science, Machine Learning, Computational Finance and Web-App Development.

Incharge Treasurer, *@DJS National Student Data Corps*   **Mumbai, India** *April 2024 - present*
- Elected as the Head of Finance, Strategy and Management for the NSDC Student Chapter by North-East Big-Data Innovation Hub associated with Columbia University for the academic year 2024-2025, organising Kaggle events, 24-hour hackathons and tie-up student projects with the US Government.

Curator for Theme and Speakers, *@TEDxDJSCE*   **Mumbai, India** *January 2024 - present*
- Curated the official theme "Alchemy of Possibilty: Turning Ideas Into Reality" for the TEDxDJSCE 2024 event, assisted the speakers pannel with the ideation and development of their talk, carving out a talk structure and blueprint for Mr. Karan Desai, Ms. Aneesha Madhok and Mr. Vijay Vikram Singh.

App Development Mentee, *@DJS Compute*   **Mumbai, India** *September 2023 - present*
- Proficient in utilizing Flutter and Firebase to build high-quality mobile applications for various platforms, including mobile, web, desktop, and embedded devices, collaborated with mentors to gain in-depth knowledge of both frontend and backend aspects of app development.

Public Relations Specialist, *@DJS Society For Data Science* **Mumbai, India** *August 2023 - March 2024*
- Successfully completed sales worth 15K during the annual membership drive, demonstrating strong sales and negotiation skills while maintaining and building public relations for the organization, ssisted in developing problem statements for the flagship event DataHack 2.0 Hackathon.

Projects

SmartSure: Revolutionising Insurance *Github*   *HumanAIze (FinTech Edition) Hackathon Winner*

By harnessing the power of AI and advanced data analytics, we're revolutionizing premium pricing. Our platform ingests fitness data from over 14+ parameters across smart wearables and smartphones to create a comprehensive health profile. Leveraging three cutting-edge machine learning models - Random Forest and KNN - we accurately classify insurance plans, delivering tailored premiums based on individual health metrics. A dynamic dashboard provides real-time insights into plans, finances, and fitness progress, empowering users to make informed decisions. Additionally, we've developed an AI assistant powered by the Mistral 8x7B model, fine-tuned on fitness and insurance data, and deployed on Streamlit for seamless user interaction. Experience insurance personalized, rewarding, and driven by your own health.

Serenity: The New-Age Music App *Figma*   *TechBlitz 2024 UI/UX Design Winner*

A music app Figma prototype that brings the ultimate music experience to your fingertips. With fully functional features like play/pause, skip, return back, and seamless horizontal and vertical swiping, Serenity puts you in control of your music journey. But it doesn't stop there. Swipe right to discover and connect with your favorite artist's vibrant communities of like-minded music enthusiasts, and even start a live stream at concerts, complete with real-time comments and likes. Experience music like never before!

F1-Forecast: Dare To Speed *Github*   *Finalist at F1Analyze*

Our F1 Datathon project aimed to revolutionize race predictions by developing a sophisticated model capable of forecasting final finishing positions based on a dataset of over 200,000 rows and 20+ critical factors. Through rigorous data preprocessing, employing statistical analysis and logical modeling, we transformed raw data into actionable insights. Our crowning achievement was the development of a high-performance random classification machine learning model that accurately predicts race outcomes. This powerful tool empowers teams and fans alike to make data-driven decisions and gain a competitive edge in the exhilarating world of Formula 1.

Uddeshya: Web Portal for NGO Mangement *GitHub*   *Finalist at HackHaven 1.0*

The developed web portal is equipped with real-time functionality to assign underprivileged students to educational institutions and manage volunteer applications and reviews efficiently. The platform's responsive design ensures seamless interaction with the system, benefiting both students and volunteers. It incorporates advanced functionalities such as chatbot integration, dynamic event locator, e-resources, and counseling session organization to provide holistic support to students and volunteers. The platform also includes a progress analytics dashboard, enabling the NGO to track and analyze key performance metrics for informed decision-making and program optimization.

VoteVault: Decentralized Voting System *GitHub*   *Finalist at ACM Lines Of Code 6.0*

Developed a decentralized voting system that utilized blockchain technology to ensure transparency and security in the electoral process. This cutting-edge platform, built with Solidity, HTML, CSS, JavaScript, React, and Flask, allowed for secure verifiable voting, empowering participants with a immutable voting infrastructure. Integration of Metamask provided seamless interaction with Ethereum, while advanced features such as a live locator, decentralized transactions, chatbot, and real-time election result publishing enriched the voting experience, supported users, and data-driven decision-making through an analytics dashboard.

CareConnect- Patient Management System *GitHub*   *Developed as Python Mini-Project*

Leveraged MySQL and Python to design a dynamic database with various schemas for efficient data management in a patient management system. The integration of these technologies enabled real-time implementation of frontend and backend functionalities, ensuring seamless storage, retrieval, and management of patient data. The tech stack included HTML, CSS, JavaScript, Python, and MySQL, providing a responsive and efficient user experience. The dynamic database design facilitated flexibility and scalability, empowering healthcare professionals with efficient data management functionalities for improved patient care.

DetectPRO: Online Fraud Detection Model *Colab*   *Developed at DJS InfoMatrix*

Utilizing libraries such as NumPy, Pandas, and Scikit-learn, we preprocessed data and selected models like Logistic Regression, SVM, Random Forest, and XGBoost for fraud detection. Metrics such as ROC AUC score, confusion matrix, recall score, and F1 score were used to evaluate the effectiveness of the models in identifying fraudulent transactions. To address imbalanced data, resampling techniques like upsampling and downsampling were implemented using the 'resample' function. These techniques aimed to enhance the fraud detection capabilities of the model and improve overall performance.

Education

UG, B.Tech Artificial Intelligence and Data Science *D. J. Sanghvi College*	**Mumbai, India**	*2022-2026*
High-schooling, HSC, MHT-CET *Prakash College of Science and Commerce*	**Mumbai, India**	*2020-2022*
Schooling, SSC *Rustomjee International School*	**Mumbai, India**	*2007-2020*

Achivements and Honors

Winner of HumanAIze (FinTech Edition) Hackathon *Hack2skill*	**Mumbai, India**	*2024*
Winner of TechBlitz UI/UX Design Challenge *Vidyavardhini's College of Engineering Technology*	**Mumbai, India**	*2024*
Runner Up at Plannered 4.0 *IIC DJSCE*	**Mumbai, India**	*2024*
Gold Medalist at Zonal Level for excelling in English Language *NELTAS*	**Mumbai, India**	*2020*

Certifications

Machine Learning Foundations *AWS Academy*

HTML, CSS, and Javascript for Web Developers *Johns Hopkins University*

Finetuning Large Language Models *DeepLearning.AI*

LangChain Chat with Your Data *DeepLearning.AI*

Open Source Models with Hugging Face *DeepLearning.AI*

Knowledge Graphs for RAG *DeepLearning.AI*

Skills

- **Softwares:** Microsoft Power BI, Tableau, AWS SageMaker, IBM Watson, Google Cloud AutoML, Microsoft Azure ML Studio, Figma, Invision Studio, Adobe Ecosystem, Microsoft Ecosystem.

- **Development:** C, Java, Python, Solidity, Dart, HTML, CSS, JS, Flutter, Firebase, SQLite3, MySQL, Flask, Django.