


PRIYANSH DESAI

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EDUCATION

Plaksha University, BTech – Computer Science and Artificial Intelligence	7.9/10.0	
Divine Child High School, Surat, 12th — CBSE	89%	2021
Delhi Public School, Surat, 10th — CBSE	92%	2019

EXPERIENCE

Data Science Intern | Bizom(Mobisy Technologies) Jan 2025 to Jun 2025

- Engineered predictive models (XGBoost, Random Forest, Mixture Density Networks) to estimate daily order quantities per outlet–salesperson pair, enabling data-driven FMCG distribution planning and reducing stock mismatch
- Conducted large-scale spatial retail analysis using OpenCV, geospatial grids, and rule-based classification to identify high-potential areas for merchant onboarding and FMCG sales, achieving 92% ML model accuracy and 85% interpretable system performance

Data Science Intern | Bizom(Mobisy Technologies) Jun 2023 to Aug 2023

- Conducted analysis to determine optimal Delhi Parle outlets for visicooler installation, using hyperlocal scores based on surrounding landmarks such as houses, schools, and metro stations, assigning weightages to each, and combined these with grid scores. Filtered outlets based on average summer sales and rest-of-year sales.
- Developed numerical calculations and array operations using NumPy, performed data manipulation and analysis with Pandas, and created data visualizations using Matplotlib. Additionally, built an interactive map dashboard with various functionalities using React and Flask.

Research Intern | HTI Lab, Plaksha University Jan 2024 – Feb 2025

- Contributed and led PosePilot and AdaptAI projects under mentorship of Prof. Siddharth
- Published two papers in top conferences including CHI-2025

PROJECTS

PosePilot Aug 2023 – Feb 2024

An Edge-AI Solution for Posture Correction in Physical Exercises

- Addressed the need for a real-time, personalized posture correction system with applications in sports, rehabilitation, and fitness training.
- Implemented a lightweight **BiLSTM+Attention** architecture for high-speed joint error detection, along with an innovative UI that delivers real-time corrective feedback.
- Achieved **97.5% pose recognition accuracy** and **0.00138 MSE** in correction feedback, **surpassing SOTA** for recognition and released a new, high-quality yoga video dataset.

AdaptAI Nov 2024 – Feb 2025

A Personalized Solution to Sense Your Stress, Fix Your Mess, and Boost Productivity

- AdaptAI is a multimodal AI system that integrates real-time data from egocentric vision, audio, and physiological signals to enhance productivity and well-being by tailoring interventions to individual needs.
- Designed a tone-adaptive conversational agent that dynamically adjusts its responses to be supportive and motivational under stress.
- Conducted a **15-participant pilot study, demonstrating significant gains in task throughput and user satisfaction.**

Contractly Aug 2024 – Jan 2025

- Built an AI-powered platform to auto-generate, test, and deploy gas-optimized smart contracts, reducing dev time by 80% and gas fees by 30%.
- Integrated Solidity, Hardhat, LangChain, MetaMask, and Next.js for seamless Web3 workflows and multi-chain readiness.
- Developed a JavaScript SDK and test generation engine to streamline dApp integration and CI pipelines.

SKILLS

- Languages:** Python, C++, Bash, JavaScript
- Frameworks:** YOLO, Next.js, Flask, Django
- ML Tools:** PyTorch, TensorFlow, Scikit-learn, PySpark
- Others:** Docker, Git, LangChain

Publications

PosePilot: Edge-AI Solution for Posture Correction in Physical Exercises May-2025
Rushiraj Gadhvi, **Priyansh Desai**, Siddharth
<https://doi.org/10.48550/arXiv.2503.09150> | IbPRIA'25

AdaptAI: A Personalized Solution to Sense Your Stress, Fix Your Mess, and Boost Productivity Feb-2025
Rushiraj Gadhvi, Soham Petkar, **Priyansh Desai**, Shreyas Ramachandran, Siddharth
<https://dl.acm.org/doi/10.1145/3706599.3720284> | CHI'25

POSITIONS OF RESPONSIBILITY

- Named Quizmaster after consistently ranking in the top 5 among 600 students in intra-school quizzes and conducted many intra and inter-school quiz competitions
- Head of discipline committee(junior student council) of DPS Surat and for this position I was chosen among 600 students, established and led a 12-member council comprising both 9th and 10th grade.
- Member of the 12-person Sports Committee at Plaksha University; organized and hosted multiple intra-university sportstournaments across variousdisciplines.

ACHIEVEMENTS

- First Runner-up in the National CBSE Cluster Mixed Doubles Lawn Tennis Tournament, Noida, 2019. This esteemed tournament featured the top 32 teams formed from the collaboration of players across 8 different clusters/sections of India.
- Emerged as the Winner in the West Zone Lawn Tennis CBSE Cluster in Jaipur (2016) and Sonipat (2018). This distinguished tournament sees participation from schools across Gujarat, Rajasthan, and Madhya Pradesh, with only the top 2 teams securing a position in the nationals.