

Harsh Patel

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Artificial Intelligence &
Data Science Graduate

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AI/Data Science graduate seeking roles in machine learning engineering. Proven ability to build interpretable ML solutions and lead technical teams.

EDUCATION

Bachelor of Technology in Artificial Intelligence and Data Science Madhav Institute of Technology & Science, Gwalior CGPA:6.38/10.00	Oct. 2021 — Jun. 2025
Higher Secondary Education (CBSE XII - P.C.M) GVN - The Global School, Bhopal Score: 69%	Jul. 2018 — Mar. 2020
Secondary Education (CBSE X) Jawaharlal Nehru School, Bhopal Score: 76%	Apr. 2008 — Mar. 2018

TECHNICAL SKILLS

AI/ML	Tensorflow, Keras, PyTorch, CNNs, RNNs, YOLO, Scikit-Learn
Data Science	Pandas, NumPy, Hypothesis Testing, Time Series Analysis, Feature Engineering
Programming	Python, SQL
Visualization	Matplotlib, Seaborn, Plotly, PowerBI
Tools	Git, GitHub, VS Code, Google Colab, Jupyter Lab, IntelliJ IDEA

PUBLICATIONS

- Patel, H.** Cross-Cultural Music Emotion Recognition: A Contemporary Review of Multimodal Methods and Datasets. *Manuscript under peer review at iCONECCT-2025* (Decision: Sep-Oct 2025).

PROFESSIONAL CERTIFICATIONS

2024	NPTEL - IIT Madras NPTEL - IIT Kharagpur Coursera - Imperial College London	Data Science for Engineers Artificial Intelligence for Economics Mathematics for Machine Learning: Linear Algebra
2025	NPTEL - IIT Guwahati	Introduction To Queueing Theory

PROJECTS

Clinical Diabetes Risk Assessment with Interpretable Machine Learning | [GitHub](#) | [Live Demo](#)

- Achieved **81% recall** in diabetes prediction by developing a SHAP-interpretable Random Forest model with optimized thresholds (AUC: 0.81), identifying glucose levels and BMI as top risk factors
- Built and deployed an interactive **Streamlit dashboard** featuring real-time risk visualization and clinical recommendations, handling 49% missing data through biologically-aware imputation
- Tech:** Python, Scikit-learn, SHAP, Streamlit

Happiness Insights 2020 | [GitHub](#) | [Live Demo](#)

- Developed an interactive Streamlit dashboard** analyzing COVID-19's impact on happiness across 153 countries, using Python (Pandas, NumPy, Scikit-learn) to identify social support as 28% more critical than GDP through SHAP analysis and predictive modeling (Random Forest, $R^2=0.65$).
- Engineered feature interactions and visualized insights** with Plotly/Seaborn, deriving policy recommendations for crisis resilience; deployed solution on Streamlit Cloud with full CI/CD pipeline.
- Tech:** Python, Pandas, NumPy, Scikit-learn, Streamlit, Plotly, Seaborn, SHAP, Pycountry

LEADERSHIP EXPERIENCE

Technical Committee Head ISTE Students' Chapter - MITS Directed 40+ member technical team; executed 25+ national/state events (400+ attendees) via design systems, cross-functional logistics, and stakeholder management.	Oct. 2022 — Mar. 2025
Design & Branding Head GeeksforGeeks Campus Chapter - MITS Established inaugural chapter's brand identity and visual systems (graphics/motion/video) while co-leading event strategy for 400+ participant engagements.	Aug. 2023 — Aug. 2024
Design & Branding Head Film & Photography Club - MITS Led creative direction for on/off-campus photography events and promotional collateral.	Mar. 2022 — Mar. 2024