Harsh Patel

(+91)-78690-72641
harsh782patel@gmail.com

Artificial Intelligence &
Data Science Graduate

linkedin.com/harsh782patel
harsh782patel.github.io

AI & Data Science Graduate seeking a Data Science/Data Analyst internship, with proven expertise in designing interpretable ML models, performing feature engineering and statistical analysis, and leading cross-functional teams to deliver data-driven solutions.

EDUCATION

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

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

1. **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	**Data Science for Engineers**
	NPTEL - IIT Kharagpur	**Artificial Intelligence for Economics**
	Coursera - Imperial College London	**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   **Oct. 2022 — Mar. 2025**
Directed 40+ member technical team; executed 25+ national/state events (400+ attendees) via design systems, cross-functional logistics, and stakeholder management.
Design & Branding Head | GeeksforGeeks Campus Chapter - MITS   **Aug. 2023 — Aug. 2024**
Established inaugural chapter's brand identity and visual systems (graphics/motion/video) while co-leading event strategy for 400+ participant engagements.
Design & Branding Head | Film & Photography Club - MITS   **Mar. 2022 — Mar. 2024**
Led creative direction for on/off-campus photography events and promotional collateral.