

## Education

<ul style="list-style-type: none"><li>Nirman High School — <i>Secondary (CBSE)</i></li></ul> Ahmedabad, Gujarat	2012 – 2020
<ul style="list-style-type: none"><li>Puna International School — <i>Senior Secondary (CBSE)</i></li></ul> Ahmedabad, Gujarat	2020 – 2022
<ul style="list-style-type: none"><li>Kalinga Institute of Industrial Technology (KIIT) — <i>B.Tech in Computer Science</i></li></ul> Bhubaneswar, Odisha	2022 – 2026

## Work Experience

1. Katch GO   AI/ML Intern	June 2025 – Present
<ul style="list-style-type: none"><li>Trained <b>XGBoost</b> models for forecasting daily ridership and revenue with <b>less than 3% average error</b>.</li><li>Provided insights on frequency of trips, passenger movement and fuel economy to improve route level decision making.</li><li>Built a <b>Computer Vision</b> model to track passengers boarding and deboarding, reducing discrepancies and <b>improving ticket collection by 14%</b>.</li></ul>	
2. AICTE Virtual Internship   AWS Cloud Architecture	October 2024 – December 2024
<ul style="list-style-type: none"><li>Completed a 10 week AWS internship, awarded <b>Grade A</b>, with hands-on practice in <b>EC2, S3, Lambda, VPC, Aurora and CloudWatch</b>.</li><li>Gained exposure to cloud deployment, networking and security principles.</li></ul>	

## Achievements & Leadership Roles

1. Amazon ML Challenge 2025   Smart Product Pricing (Top 2.73%)	
<ul style="list-style-type: none"><li>Ranked <b>629th out of 23,000+ global teams</b> in Amazon's multimodal ML competition (SMAPE: 48.9%).</li><li>Built an end-to-end price prediction model combining <b>text (TF-IDF features)</b> and <b>image embeddings</b> for e-commerce products.</li><li>Trained and optimized <b>LightGBM regressor</b> using <b>Optuna</b>, integrating engineered linguistic and quantity-based features.</li><li>Demonstrated strong proficiency in <b>multimodal learning, feature engineering and model optimization</b> under real-world constraints.</li></ul>	
2. MIT Global AI Hackathon   Solo (Special Mention)	
<ul style="list-style-type: none"><li>Shortlisted from a globally competitive pool of applicants to participate in a 24-hour AI hackathon hosted by MIT AI/ML Club.</li><li>Built a pipeline with <b>Hugging Face Diffusers, PyTorch3D and Trimesh</b> to convert 2D images to 3D exportable models.</li><li>Got a <b>special mention for "Relevant Approach"</b> for innovative solution and export ready .obj output.</li></ul>	
3. MIT Global AI Community Country Ambassador And Participant   Global AI Hackathon (2nd Edition)	
<ul style="list-style-type: none"><li>Appointed <b>one of 50 global ambassadors for the 2nd Global AI Hackathon</b> and recognized among the <b>Top 3 globally for impact and outreach</b>.</li><li>Led outreach across <b>India with primary focus on Gujarat</b>, onboarding <b>7 engineering colleges and driving over 400 student registrations</b>.</li><li>Managed technical onboarding and resolved participant queries for the hackathon.</li><li>Shortlisted with a team from a <b>global pool of 2700+ applicants</b> to participate in the hackathon.</li></ul>	

## Projects

1. Virtual Theremin   OpenCV, NumPy, SciPy <a href="#">GitHub Link</a>	
<ul style="list-style-type: none"><li>Simulated a musical instrument controlled by hand gestures using webcam-based tracking.</li><li>Generated sine waves in real-time; pitch and volume adjusted based on hand position.</li></ul>	
2. Text Summarizer & Q/A Bot   Hugging Face, Gradio, PyTorch <a href="#">GitHub Link</a>	
<ul style="list-style-type: none"><li>Developed a web app to perform document summarization and answer questions using transformer models.</li><li>Integrated Gradio interface for real-time local deployment and user testing.</li></ul>	
3. Beatbox Sound Classifier   Librosa, TensorFlow, Sounddevice <a href="#">GitHub Link</a>	
<ul style="list-style-type: none"><li>Built a sequential neural network to classify beatbox sounds into 4 categories using MFCC features.</li><li>Trained on 250+ custom-recorded audio samples, achieved 72% accuracy.</li></ul>	
4. GeoChallenge Game   Pandas, Geopy, TheFuzz <a href="#">GitHub Link</a>	
<ul style="list-style-type: none"><li>Created a geography quiz game with fuzzy matching.</li><li>Featured 3 dynamic game modes, country/capital guessing based on hints and finding all neighbours of a country with real-time geolocation and relational border data.</li></ul>	

Further work showcased on my [GitHub](#)

## Technical Skills

<ul style="list-style-type: none"><li><b>Languages:</b> Python, C, Java, SQL, HTML, CSS.</li><li><b>Libraries &amp; Frameworks:</b> NumPy, Pandas, scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, Git, Librosa, OpenCV, Matplotlib, Trimesh, TheFuzz, Geopy.</li><li><b>Tools &amp; Platforms:</b> Jupyter Notebook, Google Colab, Power BI, Sounddevice, Gradio, FL Studio.</li><li><b>Cloud &amp; DevOps:</b> AWS (EC2, S3, Lambda, VPC, Aurora, CloudWatch), GitHub.</li><li><b>Domains:</b> Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Data Analytics.</li><li><b>CS Fundamentals:</b> Operating Systems, Computer Networks, Software Engineering.</li></ul>
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## Certifications

<ul style="list-style-type: none"><li><b>Google AI Essentials Specialization: Google</b></li></ul>	August 2025
<ul style="list-style-type: none"><li>Gained hands-on knowledge of AI fundamentals, prompt engineering, responsible AI practices and applied use cases for productivity.</li></ul>	
<ul style="list-style-type: none"><li><b>IBM AI Product Manager Specialization: IBM</b></li></ul>	August 2025
<ul style="list-style-type: none"><li>Learned to design, manage and deliver AI-powered products, covering product lifecycle, stakeholder collaboration and AI strategy.</li></ul>	
<ul style="list-style-type: none"><li><b>Machine Learning: Columbia University</b></li></ul>	August 2025
<ul style="list-style-type: none"><li>Completed a comprehensive course covering key ML concepts including Linear Regression, Data Classification, Clustering and Dimensionality Reduction.</li></ul>	
<ul style="list-style-type: none"><li><b>Data Science: IBM</b></li></ul>	August 2025
<ul style="list-style-type: none"><li>Covered applied machine learning, deep learning, cloud integration, and end-to-end data workflows, with hands-on projects in analysis, modeling and deployment.</li></ul>	
<ul style="list-style-type: none"><li><b>Business Analytics for Decision Making: University of Colorado Boulder</b></li></ul>	January 2025
<ul style="list-style-type: none"><li>Course focused on using data and analytical tools to inform strategic business decisions.</li></ul>	
<ul style="list-style-type: none"><li><b>Strategy and Game Theory for Management: IIM Ahmedabad</b></li></ul>	January 2025
<ul style="list-style-type: none"><li>Explored the principles of strategic thinking and game theory as applied to business management.</li></ul>	