Bhatt Ishaan Nitin

+91 9328435711 | ishaanbhatt2004@gmail.com | Portfolio | linkedin.com/in/ishaan-bhatt-110a93256 | github.com/IshaanBhatt23

Final year Computer Science student passionate about AI, ML and audio-tech. Experienced in building machine learning models for real world problems. Thrive in high pressure environments and eager to collaborate with innovative teams to solve impactful challenges.

Education

- **Nirman High School — *Secondary (CBSE)*** — 2012 – 2020
Ahmedabad, Gujarat
- **Puna International School — *Senior Secondary (CBSE)*** — 2020 – 2022
Ahmedabad, Gujarat
- **Kalinga Institute of Industrial Technology (KIIT) — *B.Tech in Computer Science*** — 2022 – 2026
Bhubaneswar, Odisha

Work Experience

1. **Katch GO | AI/ML Intern** — June 2025 – Present
   - Designed **XGBoost-based forecasting pipelines** to predict daily ridership and revenue, achieving **under 3% average prediction error**.
   - Developed a **Computer Vision solution** using **YOLO-v8** for automated passenger counting, enabling accurate monitoring of bus occupancy in real time.

Achievements & Leadership Roles

1. **Amazon ML Challenge 2025 | Smart Product Pricing (Top 2.73%)**
   - Ranked **629th out of 23,000+ global teams** in Amazon's multimodal ML competition (SMAPE: 48.9%).
   - Built an end-to-end price prediction model combining **text (TF-IDF features)** and **image embeddings** for e-commerce products.
   - Trained and optimized **LightGBM regressor** using **Optuna**, integrating engineered linguistic and quantity-based features.
   - Demonstrated strong proficiency in **multimodal learning, feature engineering and model optimization** under real-world constraints.

2. **MIT Global AI Hackathon | Solo (Special Mention)**
   - Shortlisted from a globally competitive pool of applicants to participate in a 24-hour AI hackathon hosted by MIT AI/ML Club.
   - Built a pipeline with **Hugging Face Diffusers, PyTorch3D and Trimesh** to convert 2D images to 3D exportable models.
   - Got a **special mention for "Relevant Approach"** for innovative solution and export ready .obj output.

3. **MIT Global AI Community Country Ambassador And Participant | Global AI Hackathon (2nd Edition)**
   - Appointed **one of 50 global ambassadors for the 2nd Global AI Hackathon** and recognized among the **Top 3 globally for impact and outreach.**
   - Led outreach across **India with primary focus on Gujarat**, onboarding **7 engineering colleges and driving over 400 student registrations.**
   - Managed technical onboarding and resolved participant queries for the hackathon.
   - Shortlisted with a team from a **global pool of 2700+ applicants** to participate in the hackathon.

Projects

1. **Virtual Theremin | OpenCV, NumPy, SciPy** *GitHub Link*
   - Simulated a musical instrument controlled by hand gestures using webcam-based tracking.
   - Generated sine waves in real-time; pitch and volume adjusted based on hand position.

2. **Sap-Chatflow | LLM, RAG, FullStack** *GitHub Link*
   - Engineered a full-stack Conversational AI assistant (Llama 3.1/RAG, React/TS) to automate complex SAP workflows, enabling form submissions and providing real-time operational data (PO, Stock Levels) via a natural language chat interface.
   - Developed a Retrieval-Augmented Generation (RAG) architecture using a specialized knowledge base to ensure the LLM's responses were grounded and accurate for enterprise-level SAP terminology and business processes.

3. **GeoChallenge Game | Pandas, Geopy, TheFuzz** *GitHub Link*
   - Created a geography quiz game with fuzzy matching.
   - 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.

Further work showcased on my GitHub

Technical Skills

- **Languages:** Python, C, Java, SQL, HTML, CSS, TypeScript
- **Libraries & Frameworks:** NumPy, Pandas, scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, Git, Librosa, OpenCV, Matplotlib, Trimesh, TheFuzz, Geopy.
- **Tools & Platforms**: Jupyter Notebook, Google Colab, Power BI, Sounddevice, Gradio, FL Studio.
- **Cloud & DevOps**: AWS (EC2, S3, Lambda, VPC, Aurora, CloudWatch), GitHub.
- **Domains**: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Data Analytics.
- **CS Fundamentals**: Operating Systems, Computer Networks, Software Engineering.

Certifications

- **Google AI Essentials Specialization: Google** — August 2025
  - Gained hands-on knowledge of AI fundamentals, prompt engineering, responsible AI practices and applied use cases for productivity.
- **IBM AI Product Manager Specialization: IBM** — August 2025
  - Learned to design, manage and deliver AI-powered products, covering product lifecycle, stakeholder collaboration and AI strategy.

- **Machine Learning: Columbia University** — August 2025
  - Completed a comprehensive course covering key ML concepts including Linear Regression, Data Classification, Clustering and Dimensionality Reduction.
- **Data Science: IBM** — August 2025
  - Covered applied machine learning, deep learning, cloud integration, and end-to-end data workflows, with hands-on projects in analysis, modeling and deployment.
- **Business Analytics for Decision Making**: **University of Colorado Boulder** — January 2025
  - Course focused on using data and analytical tools to inform strategic business decisions.
- **Strategy and Game Theory for Management: IIM Ahmedabad** — January 2025
  - Explored the principles of strategic thinking and game theory as applied to business management.

Certificate Portfolio: https://drive.google.com/drive/folders/1F0UtQwikIar5HT3UoN87UmqeHy-EcQIT