Ishaan Bhatt

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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 - December 2025**
   - 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 an ensemble model consisting of LightGBM regressor and HistGradientBoosting Regressor** 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.