Amitoj Singh Chawla

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Professional Summary

Detail-oriented and driven undergraduate in Artificial Intelligence and Data Science with strong foundational knowledge in machine learning, data analysis, and software development. Experienced in building scalable projects using Python, PyTorch, and web technologies. Actively seeking internship opportunities to contribute to innovative teams and gain practical exposure.

Technical Skills

- Languages: Python, HTML, CSS
- Libraries/Frameworks: PyTorch, Scikit-learn, NumPy, Pandas, FAISS, Flask
- Tools: Docker, Git, Render
- Technologies: Machine Learning, Deep Learning, Recommender Systems, Transfer Learning
- Languages Known: English (Fluent), German (B1 Completed), Hindi, Punjabi

Education

- Bachelor of Technology – Artificial Intelligence and Data Science   Nov 2021 – Jul 2026
  (Expected)
   Guru Tegh Bahadur Institute of Technology, GGSIPU, New Delhi
- Senior Secondary (12th Standard)
   Ryan International School, Rohini, New Delhi

Projects

- **Tomato Leaf Disease Classifier**
  - Achieved 99% accuracy using EfficientNet-B0 for leaf disease classification
  - Used PyTorch and transfer learning; integrated with Flask frontend
  - Containerized and deployed using Docker and Render
- **Movie Recommendation System**
  - Built a hybrid recommender using matrix factorization and FAISS
  - Preprocessed MovieLens dataset and optimized for scalability and accuracy
- **RAG-based GenAI Chatbot (Planned)**
  - Currently studying Generative AI techniques and RAG architecture
  - Goal: Build a portfolio-level application with context-aware retrieval

Professional Experience

- IEEE GTBIT Student Branch – R&D Co-Lead   Apr 2024 – Mar 2025
  - Led technical research projects and seminars for student development
- IEEE GTBIT Student Branch – Social Media Coordinator   Mar 2022 – Apr 2024
  - Managed digital campaigns and content strategy
  - Boosted engagement through creative initiatives

Certifications

- Microsoft AI & ML Engineering Professional Certificate (Ongoing)
- IBM Cloud Foundations Course (Completed)

Personal Interests

Reading books, strength training at the gym, listening to high-resolution music, baking cakes, and brewing specialty coffee.