

# JAGRIT DHINGRA

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## EDUCATION

### Ithaca College, School of Humanities and Sciences

BS in Computer Science & Finance (Asset Management)

Ithaca, NY

Expected Graduation: May 2027

- **GPA** – 4.00
- **Awards and Honors** – Dean's List, Oracle Honor Society, Tri Alpha
- **Relevant Coursework** – Machine Learning, Networks, Export/Import Operations, HCI, Data Structures, NLP, Accounting, Linear Algebra, Discrete Structures, Advanced Web Programming

## SKILLS

- **Languages:** Python (Pandas, NumPy, Scikit-learn), SQL, Java (DSA), C++, JavaScript
- **Web & Databases:** Flask, Django, React, REST APIs, MongoDB, PostgreSQL,
- **Machine Learning:** PyTorch, TensorFlow, XGBoost, Hugging Face Transformers, LLM Fine-tuning
- **Developer Tools:** Git/GitHub, Linux (Bash/Shell), Docker, Azure, VS Code

## PROJECTS

**Humor Classification NLP Model (GenAI & LLM Fine-Tuning)** -Fine-tuned Transformer models (**DeepSeek R1, Google FLAN T5**) on the HumorBench dataset to detect linguistic nuances in satire and sarcasm. Achieved **82% accuracy**, outperforming the baseline by 15% through **PEFT/LoRA**. Optimized tokenization and inference pipelines, reducing latency by **40%** while maintaining high precision in subjective text analysis.

**PetFinder Adoption Predictor (Multimodal ML)** – Engineered a multimodal machine learning pipeline to predict pet adoption speed using the PetFinder.my dataset. Synthesized visual data by extracting image features via **DenseNet** and processing tabular metadata with **Tree Ensembles(LGBM, XgBoost, CatBoost)**. In the final integration stage, combined all features using **Field-aware Factorization Machines (FFMs)** to capture higher-order interactions and achieved a **25% improvement over the baseline**.

**PetConnect** – Developed a full-stack web application for pet-related services using **Python (Django)** and **PostgreSQL** to manage a flexible user schema. Integrated the **PetFinder Adoption Predictor pipeline** alongside a custom popularity algorithm to find suitable pet matches. Designed a responsive frontend using **React**, implementing **WebSockets** to enable real-time user communication.

## PROFESSIONAL EXPERIENCE

### Makerspace and Digital Media Lab Specialist

Ithaca, NY

Information Technology Office

July 2025 - Present

- Mentored 40+ users weekly on VR hardware, 3D printers and simulation software, while diagnosing and resolving technical issues to ensure 100% equipment uptime
- Collaborated with students in developing and optimizing functional electronics prototypes using the Arduino platform, offering hands-on feedback on programming (C/C++), circuit design and debugging

### Peer Tutor

Ithaca, NY

Center for Student Success

March 2025 - Present

- Tutored students in Data Structures and Algorithms in Java, covering recursion, binary trees, and data structures
- Provided direct feedback in troubleshooting k-means clustering convergence issues and image preprocessing filters

### Junior Financial Analyst

Ithaca, NY

Center for Student Success

March 2025 - Present

- Co-managed a student-run equity portfolio valued at \$150,000, building Discounted Cash Flow (DCF) models enriched with ML regression analysis to evaluate holdings and translate complex market data into actionable buy/sell recommendations
- Conducted industrial-construction sector and company-specific research, leading to a stock pitch at the New York Stock Exchange (NYSE) that resulted in buying \$6000 of Sterling (STRL) in the investment portfolio of Ithaca College

## CERTIFICATIONS

1) Harvard's CS50x from edx

3) Harvard's CS50 Python from edx

5) Google Digital Marketing

2) Python 100 Days Udemy Bootcamp

4) JP Morgan's Excel Internship

6) Bloomberg Market Concepts

## LEADERSHIP EXPERIENCE

**Senator of Class of 2027 | Student Government Council** - Advocated for fair leftover food distribution, reduced waste, better gym hours and successfully resolved maintenance requests and corrected erroneous student charges, improving campus living experiences.