

# Krish Desai

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## EDUCATION

### Cornell University

B.S. in Computer & Information Science

Intended Minor: Artificial Intelligence

Relevant Courses: Data Structures, Functional Programming, Discrete Mathematics, Web Development, Networks, Info Ethics

Ithaca, NY

May 2026

## TECHNICAL SKILLS

**Programming:** Python, Java, JavaScript, HTML/CSS, React.js, Tailwind CSS, Node.js, OCaml, Swift (iOS), SQL

**Developer Tools/Frameworks:** Jupyter Notebooks, TensorFlow, NumPy, Pandas, Amazon Web Services (AWS), Git, GitHub, Visual Studio Code, Eclipse, IntelliJ, Bootstrap, Xcode, ArcGIS Pro

## PROFESSIONAL EXPERIENCE

### BeyondSoft Consulting

Software Engineer Intern, Applied AI

Bellevue, WA

May 2024 - Dec 2024

- Led production of **Large Language Model (LLM)** chatbots to answer internal company queries using **Python**, **LangChain** and **OpenAI API** that is used cross-functionally in **15+ countries** by over **20,000 employees**
- Optimized model output through building **Retrieval-Augmented Generation (RAG)** by training knowledge base on **200+ internal company documents** spanning legal, information technology and human resources departments

### Western University - Northern Tornadoes Project

Data Science Research Intern

London, ON

Jun 2023 - Aug 2023

- Collaborated with a professor and graduate student on GIS (**Geographic Information System**) model attempting to establish a novel method of rating tornado damage to replace the Enhanced Fujita Scale in areas without trees/buildings
- Improved data implementation to **enhance the accuracy of the model by 15%** by introducing time series lag features to better map satellite imaging of tornado scars to respective date
- Gathered **20+ NDVI** (Normalized Difference Vegetation Index) **points** using satellite images from **ArcGIS Pro** of a EF-4 tornado in Manitoba and processed over 100+ satellite images of tornado scars in the Prairies for project dataset

### NASA Texas Space Grant

SEES Machine Learning Research Intern

Austin, TX

May 2022 - Aug 2022

- Co-wrote and presented American Geophysical Union published paper investigating how forest fire data affects mosquito abundance prediction machine learning models used in California
- Built a **Random Forest Regressor** model using **Python** & **Jupyter Notebook** with **root mean squared error (RMSE) of 3.94** and utilized drop-column importance to determine significance of forest fire data
- Enhanced model performance by implementing Bayesian Search for hyperparameter tuning, leading to a **15% improvement in prediction accuracy** as measured against validation datasets and real-world mosquito abundance data

## PROJECTS

### Bourbon - Cornell Syllabi Database | Personal Project

Nov 2024

- Built a syllabus organization platform using **React**, **TypeScript**, and **Clerk authentication**, enabling students to securely search and filter past course syllabi by course code, professor, and year.
- Developed a **Node.js** backend to handle data persistence and updates, ensuring syllabi remain accessible and up-to-date, with an intuitive user interface designed with **Tailwind CSS**

### Pigeon News - Academia Based News Platform | Startup Accelerator

May 2024

- Programmed global conflict tracker mapping tool to showcase geopolitical events happening in the world using **Leaflet JS** library, **JavaScript**, **React**, **HTML** & **CSS**.
- Built "Pigeon News" feature that provided summarized articles on topics using esteemed academic sources in a condensed format; used **OpenAI API** to build article summarizer to automate process of summarizing research papers

## LEADERSHIP EXPERIENCE

### World of Devs

Founder & Club Lead

Toronto, ON

Aug 2020 - Jun 2023

- Organized hackathons with \$35,000 in funding and taught core competencies in web and app development through boot camps and webinars for 700+ students from 29+ countries