

# YUVAN CHUGH

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U.S. Permanent Resident (Green Card holder) authorized to work without sponsorship

## EDUCATION

### CORNELL UNIVERSITY, College of Engineering

Ithaca, NY

December 2025

- Bachelor of Science, Computer Science

- Dean's List - three semesters

- Courses: Machine Learning, Database Systems, Algorithms, Data Structures, Discrete Math, Multivariable Calculus, Probability and Statistics, Functional Programming, Robotics, Embedded Systems, Systems Programming, Entrepreneurship

### DHIRUBHAI AMBANI INTERNATIONAL SCHOOL

Mumbai, India

May 2021

- Grade 12 International Baccalaureate Diploma score: 44/45, GPA: 4.00/4.00 | Grade 10 IGCSE GPA: 3.95/4.00

## PROFESSIONAL EXPERIENCE

### INTERPLAY RESEARCH LAB, Cornell University

Ithaca, NY

Dec 2025 - Present

AI/ML Researcher

- Building sentiment analysis system to analyze public opinion about Hawk-Eye in baseball using NLTK VADER and OpenAI GPT-4o mini API.
- Implemented data pipeline using Python to scrape, clean and process 40,000+ Reddit posts and comments.
- Developed reusable visualization frameworks using matplotlib and seaborn libraries to generate multi-subplot analytical dashboards for temporal trends and cross-subreddit sentiment pattern analysis.

### ALLIANZ LIFE

Minneapolis, MN

Data Science Intern

May 2024 - Aug 2024

- Developed automated workflows processing 7,000+ distributor records across all sales channels for real-time sales targeting.
- Implemented production-level ML clustering algorithm using scikit-learn with silhouette analysis validation and continuous monitoring.
- Created distributor segmentation profiles and presented actionable findings to senior management and stakeholders for data-driven decisions.

### LEMNISK

Bangalore, India

Data Science Intern

Jul 2023 - Aug 2023

- Designed and implemented chatbot that converts natural language to SQL code, leveraging GPT-4 and LangChain with custom prompt templates and schema injection, achieving 85% query accuracy across a 20-table relational database.
- Improved query performance through index tuning, table partitioning and materialized views for complex aggregations.

### BOLD PENGUIN

Columbus, OH

Data Science Intern

Jun 2022 - Jul 2022

- Developed Named Entity Recognition and classification algorithms to automate data extraction from emails, proposal forms, PDFs.
- Built OCR-based document parser in Python and improved existing parser's accuracy by 7%.

### YELLOW.AI

Bangalore, India

Data Engineering Intern

Jun 2020 - Jul 2020

- Implemented chatbot features using JavaScript and SQL including conversation flows and database integrations for client deployments.
- Analyzed conversational AI architectures across industry platforms, evaluating tech stacks and system design patterns.

### AVENDUS CAPITAL (Owned by KKR)

Mumbai, India

Software Engineering Intern

Feb 2025 - Mar 2025

- Built ETL pipeline using Python to extract structured and unstructured data from 500+ Wealth-X PDFs, reducing manual processing time and delivering actionable Excel reports containing client and prospect information.
- Enabled CRM integration with unique-key mapping to help 40+ Relationship Managers access most recently processed client insights.

### CORNELL ROCKETRY TEAM

Ithaca, NY

Business Team Lead

Aug 2023 - May 2024

- Led six-member Business sub-team, represented Cornell University at annual Spaceport America Intercollegiate Rocket Competition.
- Spearheaded marketing, fund-raising, sponsor relations, social media, and programmed website using ReactJS.

### AI PRACTICUM, Cornell University

Ithaca, NY

Software Developer

Aug 2024 - Dec 2024

- Developed a conversational AI assistant for text, audio input and output using Retrieval Augmented Generation (RAG).
- Programmed FastAPI backend, NextJS frontend, and data ingestion workflow for real-time document retrieval and vector search using Pinecone.

## EXTRACURRICULAR ACTIVITIES

- Trinity College Communication Skills Program: Professional Certificate Award (Highest Grade)
- Member of Tarana, Cornell's South Asian Acapella group
- Volunteer at the Poona School and Home for the Blind; 16 articles published on assistive technologies. Led fundraising, mass email marketing and sourcing of equipment including Perkins Braillers and Annie Devices.

## ADDITIONAL INFORMATION

- **Programming Languages:** Python, Java, SQL, React
- **Database Systems:** AWS Sagemaker, Apache Druid, Microsoft Azure Synapse, SQL Server
- **Software:** Jupyter Notebooks, Hugging Face, Tableau, LangChain, Kubernetes, PyTorch, Microsoft Copilot, Git, Posit Workbench, Jira, Azure OpenAI, VSCode, DbVisualizer, FastAPI, Bloomberg Terminal