# Rishik Reddy Yesgari

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## EDUCATION

**Bachelor of Science in Computer Science** May 2027 | Newark, NJ
*New Jersey Institute of Technology*

- **GPA:** 3.97 | **Awards:** Highlander Achievement Scholarship Recipient, Dean's List: 2023, 2024
- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Probability and Statistics, Linear Algebra, Web Development, Discrete Math, Programming Language Concepts (C++) Intro to Data Science, Intro to Machine Learning
- **Campus Involvement:** Webmaster for Kids Who Code (KWC), Member of ACM and NJIT Archery Club

## SKILLS AND CERTIFICATIONS

**Programming Languages:** Python, Java, C++, SQL

**Libraries & Tools:** Pandas, Numpy, Seaborn, Scikit-learn, Flask, TensorFlow, GitHub, MySQL, Tableau, Streamlit

**Software & Platforms:** Visual Studio, Anaconda, Microsoft Azure, MS Excel

**Soft Skills:** Adaptability, Attention to Detail, Teamwork

**Languages:** English, Hindi, Telugu

**Certifications:** Data Science Fundamentals (NASBA), Microsoft Certified: Azure Data Scientist Associate

## PROFESSIONAL EXPERIENCE

**Research Assistant** Apr 2025 – present | Newark, NJ
*Prof. Chengjun Liu, NJIT*

- Conducting research on skin disease detection using machine learning and image analysis techniques
- Preprocessing and augmenting dermatology image datasets with Python and OpenCV
- Training and analyzing various machine learning models' performance and contributing to research publications

**Research Assistant** May 2024 – Dec 2024 | Newark, NJ
*Dr. Alisha Pradhan, Department of Informatics, NJIT*

- Conducted survey-based research on digital behavior and risk awareness among older adults to support AI-driven fraud prevention tools
- Analyzed collected data through qualitative data analysis, extracting trends and informed improvements to system design and intervention strategies

## PROJECTS

**Doodle Classification with LSTM (Inspired by Quick, Draw!)**
*Python, TensorFlow, Flask, NumPy, RNN*

- Trained and deployed an LSTM model achieving 97% accuracy on real world stroke data for 20 object classes
- Designed a preprocessing pipeline to transform raw JSON stroke input into model ready sequences
- Built Flask backend APIs to receive sketch input from the frontend, run real-time inference with the trained model, and return predictions through low-latency REST endpoints

**Fork It – Group Restaurant Recommendation System**
*Python, Scikit-learn, Pandas, Flask, TF-IDF, Cosine Similarity*

- Developed a Flask backend that receives JSON formatted group preferences from the frontend and processes them using a hybrid pipeline with TF-IDF for queries and one-hot encoding for categorical filters
- Aggregated individual user vectors via weighted averaging, computed cosine similarity scores against a Trenton specific restaurant dataset scraped from Google, and returned top-ranked results to the frontend via REST API

## ACTIVITIES

**AI/ML Fellow Break Through Tech @ Cornell Tech** Jun 2025 – Jun 2026
*Fellow*

Part of a year-long virtual fellowship focused on applied machine learning and real-world AI projects

**Propel2Excel** Dec 2024 – present
*Fellow*

A non-profit organization with the mission to increase representation of non-targeted university students pursuing careers in Tech (FAANG), Consulting (MBB), and Finance