

# Rishik Reddy Yesgari

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## EDUCATION

### Bachelor of Science in Computer Science

May 2027 | Newark, NJ

New Jersey Institute of Technology

- **GPA:** 3.96 | **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 ML
- **Campus Involvement:** Webmaster for Kids Who Code (KWC), Member of ACM and NJIT Archery Club

## SKILLS AND CERTIFICATIONS

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

**Machine Learning & Data Science:** Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib, Seaborn, NLP, OpenCV

**Deep Learning:** Convolutional Neural Networks, Recurrent Neural Networks, Graph Neural Networks, Transfer Learning

**Web Development:** React.js, Tailwind CSS, HTML, CSS, Flask, Streamlit, Vite

**Tools & Platforms:** Git, GitHub, MongoDB, MySQL, Firebase, Azure Machine Learning Studio, Visual Studio, Anaconda

**Certifications:** Data Science Fundamentals (NASBA), Microsoft Certified: Azure Data Scientist Associate (2025), Cornell Machine Learning Certificate (2025)

## PROFESSIONAL EXPERIENCE

### Artificial Intelligence and Machine Learning Fellow

Jun 2025 – Present

Break Through Tech @ Cornell Tech

- Selected nationally from 3,000+ applicants for Break Through Tech AI program at Cornell Tech
- Participant in 12 month long program including Machine Learning course work from Cornell Faculty and mentorship from industry professional
- Scheduled to lead an AI Studio project with an industry sponsor, guiding a team to deliver a production-ready ML solution and present to executive stakeholders

### 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!) | Machine Learning & Backend Engineer 📁

Python, TensorFlow, Flask, NumPy, RNN

- Achieved 97% accuracy with an LSTM model trained on real-world stroke data across 20 object classes
- Developed a preprocessing pipeline converting raw JSON strokes into sequence inputs for the model
- Built Flask APIs for real-time sketch inference, returning predictions via low-latency REST endpoints

### Fork It – Group Restaurant Recommendation System | Machine Learning & Backend Engineer 📁

Python, Scikit-learn, Pandas, Flask, TF-IDF, Cosine Similarity

- Built a Flask backend to process JSON group preferences using a hybrid pipeline with TF-IDF and one-hot encoding
- Aggregated user vectors via weighted averaging and used cosine similarity to rank Trenton-specific restaurants scraped from Google, returning results via REST API