

# Nandika Karnik

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## EDUCATION

### New Jersey Institute of Technology

Newark, NJ

*Bachelor of Arts in Computer Science, Minor in Mathematics of Finance & Actuarial Sciences* Sept. 2023 – Dec 2026

- GPA: 3.77, Dean's List: Fall '23, Spring '24, Fall '24
- Coursework in Machine Learning, Data Analytics, Databases, Object-Oriented Programming, Data Structures, Linux, Discrete Mathematics, Statistics, Microeconomics
- Organizations: NJIT Investment Fund (Analyst), Baking Club (Treasurer), Women in Computing Society

## PROJECTS

### NY Graduation Model | *Python, Scikit-Learn, seaborn, pandas, matplotlib, Jupyter Notebook* Oct 2024 – Dec 2024

- Built a Multiple Linear Regression model to predict graduation rates using NYC public school data
- Achieved an r-squared value of **0.99**
- Visualized correlations with heatmaps, scatterplots, and boxplots

### Credit Predictor | *Python, Scikit-Learn, pandas, Google Colab*

Oct 2024 – Dec 2024

- Developed a Random Forest model with up to **81.5% accuracy** on German Statlog Credit Data
- Used Confusion Matrices, Feature Importance charts, and Classification Reports for analysis
- Teamed up via GitHub and documented key learnings in a final report

### Personal Website | *HTML, CSS*

Feb 2025 – Present

- Designed and deployed a responsive personal portfolio to highlight technical work

## SKILLS

**Programming Languages:** C/C++, Java, Python, SQL (MySQL), Bash

**Tools:** Git, Jupyter Notebook, Anaconda, Visual Studio Code, PyCharm, IntelliJ, MS Excel

**Libraries:** Scikit-Learn, pandas, NumPy, Matplotlib

**Languages:** Hindi, French

**Skills:** Quantitative Research, Data Analytics, Leadership, Communication

## EXPERIENCE

### Analyst

Dec 2023 – Present

*NJIT Investment Fund*

*Newark, NJ*

- Proposed a profitable consumer sector investment for the portfolio that has grown by over **20%**
- Conducted equity research on S&P 500 consumer stocks using Excel
- Authored investment theses and constructed DCF valuation models

### Founding Board Member

July 2020 – June 2023

*Project Engage NJ*

*West Windsor, NJ*

- Raised **hundreds of dollars** via virtual/in-person fundraisers
- Built and maintained a Wix-based organization website
- Recruited and led a team of **20+** high school students
- Taught Java programming to elementary and middle school students

### Rotational Pit Crew, Programmer, Outreach Sub-Team Member

Aug 2021 – May 2023

*MidKnight Inventors Robotics Team, FIRST Robotics*

*West Windsor, NJ*

- Performed system checks and updated code as pit crew trainee
- Worked in a collaborative programming team for robot development

## CERTIFICATIONS

**CPA - C++ Certified Associate Programmer** | *C++ Institute*

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