

# Nishi Patel

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## EDUCATION

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**Northeastern University**, Boston, MA

Sept. 2020 – May 2024

*Bachelor of Science in Data Science and Physics, minor in Mathematics*

**Honors:** GPA 3.72/4.00 | Magna Cum Laude | Dean's List | University Honors Distinction | Academic Excellence Award

## WORK EXPERIENCE

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**Machine Intelligence Group ( [MIGHTE](#) )**, Boston, MA

Nov. 2023 - Present

Data Science Research Assistant

- Implemented a neural network with PyTorch to classify the progression of diabetic retinopathy in patients using 200K+ vectorized images with 82% accuracy, reducing storage needs and aiding doctors with limited data capacity.
- Created a custom Python model to analyze a patient disease progression dataset, identifying 3 specific environmental risk factors (such as elevated levels of air pollution) to optimize early prognosis accuracy.

**Raytheon - Pratt & Whitney**, East Hartford, CT

July 2023 - Dec. 2023

Project Execution Office Intern

- Enhanced visibility for senior leadership by creating and maintaining Jira dashboard reports about project progress.
- Applied agile methodologies to orchestrate sprints across three projects with 40+ employees within Jira.
- Produced instructional materials and comprehensive tutorials for business team employees.

**STAG Industrial**, Boston, MA

July 2022 - Dec. 2022

Data Analyst Intern

- Developed a rent predictor model using linear regression with a testing set of over 400K+ data values in Python.
- Presented results and PowerBi visuals describing the model to the entire company, focusing on introducing the predictor into everyday use for the acquisitions team when considering purchasing warehouses.
- Designed interactive statistical dashboards in Tableau and PowerBi to identify factors influencing warehouse prices.
- Integrated model into existing SQL warehouse databases and analyzed novel data with 73% accurate output.
- Utilized AI Builders and flows with Power Automate to streamline handling intricate file-related tasks, decreasing task completion time from 500 hours to 6 hours, aiding the accounting team with over 1,000 client documents.

## COMPUTER KNOWLEDGE

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**Languages:** Python | Java | C++ | HTML/CSS | SQL | C# | MATLAB | JavaScript | Bash

**Software:** Jupyter Notebooks | Pytorch | MongoDB | Redis | Tableau | Excel | PowerBi | Power Automate | NoSQL

**Developer Tools:** MacOS | Windows | Git | Jira | VSCode | IntelliJ IDEA | Eclipse

**Skills:** Machine learning, object-oriented programming, statistical & experimental lab analysis

## ACADEMIC PROJECTS & EXTRACURRICULAR INVOLVEMENT

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**NU SEDS, Life Detection Team Member**

Sept. 2021 - May 2024

- Researched and implemented biological tests to determine the existence of life in a given sample.
- Contributed to the team's highest ever placing in the 2024 University Rover Challenge, 10th of 38 teams.
- Developed MATLAB scripts to analyze spectrometer data from paper test strips.

**Computer Science Mentor**

June 2023 – Dec. 2023

- Guided 3 incoming students, providing valuable insights and support in navigating the academic landscape.
- Offered 5 hours per week for tailored support in academic, personal, and career development.

**Image Processor Project**

Oct. 2021 – Dec. 2021

- Created an image editor GUI in Java to manipulate images with various filters and transformations.
- Incorporated filters such as blurring, sharpening, flipping, and mosaicking with an object-oriented design.