

# NIDISH NARSIPUR

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## EDUCATION

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- Expected 12/24 **NEW YORK UNIVERSITY** New York, NY  
**The Courant Institute of Mathematical Sciences**  
**M.S. in Mathematics in Finance**
- **Coursework:** stochastic calculus, machine learning, Black-Scholes, Monte Carlo simulation, CAPM, data-driven models
- 09/19 - 05/23 **RUTGERS UNIVERSITY** New Brunswick, NJ  
**B.S. in Physics and minor in Mathematics and Computer Science**
- **Coursework:** quantum algorithms, linear algebra, ordinary differential equations, stochastic processes, computer programming, probability theory, linear regression
  - **Honors/Awards:** Paul Robeson Thesis Scholar, awarded High Honors in the Physics major
  - **Thesis:** "Mitigation of Noise in Quantum Computations for Solving the Fermi-Hubbard Model"

## EXPERIENCE

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- 09/21 - 12/21 **RUTGERS UNIVERSITY** New Brunswick, NJ  
**School of Arts and Sciences**  
**Learning Assistant, Analytical Physics 2**
- Conducted research on communicating multiple topics clearly and concisely
  - Collaborated with several sections of undergraduate students to develop their conceptual knowledge of problem solving and technical skills
- 09/21 - 12/21 **RUTGERS UNIVERSITY** New Brunswick, NJ  
**School of Arts and Sciences**  
**Learning Assistant, Analytical Physics Lab**
- Facilitated undergraduate student groups, improving their data modeling and data analysis skills
  - Collaborated with multiple student groups, enhancing their problem solving and technical skills
- 04/22 - 08/23 **RUTGERS UNIVERSITY** New Brunswick, NJ  
**School of Arts and Sciences**  
**Research Assistant (Python)**
- Used linear regression analysis to reduce errors in technical/quantum computations, result: 20-fold improvement in computation
  - Demonstrated 99% mitigation of errors on IBM quantum computers
  - Learned Python libraries quickly (e.g., created ancilla qubit reuse code using IBM Qiskit)
  - Took initiative to create error mitigation techniques in quantum computations
  - Authored senior thesis and presented key results to faculty board; awarded High Honors

## PROJECTS

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- 05/23 - Present **BASKETBALL PLAYOFFS SIMULATION (Python)** Remote
- Constructed algorithm in Python that takes in large set of parameters and runs Monte Carlo simulation that predicts NBA playoffs winner
- 06/16 - 08/16 **MASTERS IN THE UNITED STATES (Java)** Remote
- Led and collaborated with 2 other programmers on Android application that helps non-US students interested in pursuing US academic degrees

## COMPUTATIONAL SKILLS / OTHER

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**Programming Languages:** Java, Python, C/C++, LaTeX, JavaScript, HTML, SAS, SQL, R, MATLAB, Maple, Origin

**Languages:** English (fluent), Spanish (Conversational), Kannada (native)

**Affiliation/Certification:** SAS Certifications: Programming on Reports, Tables Generation, Clinical Programming