# Naga Ramya Gurrala

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## Education

**Binghamton University, State University of New York** — **Expected May 2025**
*Master of Science in Computer Science; GPA: 3.2/4.0* — *Binghamton, NY*

- Relevant Coursework: Operating System, Machine Learning, Programming System and Tools, Programming Languages, Computer Architecture, Design and Analysis of Algorithms, Human Computer Interaction

**Rajiv Gandhi University of Knowledge Technologies** — **May 2022**
*Bachelor of Science in Computer Science and Engineering; GPA: 3.52/4.0* — *India*

## Technical Skills

**Languages**: Python, Core Java, C
**Data Analysis**: Excel, SQL, MySQL, Numpy, Pandas
**Software Development**: Object-Oriented Programming, Data Structures, Algorithms, Software Design Principles
**Tools/Frameworks**: TensorFlow, Keras, scikit-learn, PyTorch, Git
**Frontend**: HTML, Tailwind CSS, Bootstrap, Angular, TypeScript, React
**Machine Learning**: Machine Learning Algorithms, CNN, RNN, Neural Networks, Regression
**IDEs/Tools**: Eclipse, Visual Studio Code, Google Colab, Android Studio, Jupyter Notebook
**Certifications**: Artificial Intelligence with Machine Learning Workshop,IIT-Hyderabad,Python online training workshop,APSSDC

## Professional Experience

**Aishva Financial Services Private Limited** — **January 2023 – June 2023**
*Frontend Developer Intern*

- Engineered cross-platform responsive interfaces using TypeScript, HTML, and CSS for emails, websites, and mobile apps, reducing browser compatibility issues by 90%
- Spearheaded and implemented interactive stock data visualization screens, leveraging Angular and D3.js, resulting in a 25% increase in user engagement
- Utilized efficient TypeScript services to integrate Django REST APIs with frontend, optimizing data retrieval and transformation processes, which improved overall system performance by 40%

**Golden Hills Capital India Private Limited** — **June 2022 – August 2022**
*Frontend Developer Intern*

- Developed a Fin-tech product aimed at providing comprehensive stock analysis with rich visualizations, enhancing data accessibility for over 10,000 users.
- Designed and implemented responsive user interaction screens using HTML, CSS, TypeScript, and Angular, achieving a 30% increase in user satisfaction.
- Created detailed and cross-compatible email templates and web pages, ensuring seamless functionality across various browsers and devices, improving email campaign effectiveness by 20%.

## Project Experience

**Image Caption Generator** | *Python, TensorFlow, Keras*

- Developed an application that recognizes image context and generates relevant captions using deep learning and computer vision.
- Trained the CNN model VGG16 for image feature extraction; integrated these features into the LSTM model to produce image captions, achieving an 85% accuracy rate.

**Bitcoin Price Prediction** | *Python, Scikit-learn*

- Explored the accuracy of predicting Bitcoin price movements through machine learning methods.
- Created models considering various factors influencing Bitcoin's value, offering a comprehensive analysis of cryptocurrency market dynamics, with a prediction accuracy of 80%.
- Evaluated the model's predictive accuracy for forecasting Bitcoin price fluctuations.

**Random Sudoku Solver Generator** | *Python*

- Engineered a Python-based Sudoku solver and generator utilizing advanced algorithms and data structures, accelerating puzzle generation by 60% and solver accuracy to 99.5% through rigorous testing and optimization.
- Applied a backtracking Depth-First Search algorithm to solve complex Sudoku puzzles.

## Leadership Experience

**National Service Scheme** — **Andhra Pradesh, India**
*Volunteer*

- Volunteered with NSS, participating in special camps in small villages for surveying purposes, impacting over 500 villagers.